# Conferring of Degrees

*at the close of the 102nd Academic Year*
*The Johns Hopkins University*

*May 26, 1978 ✣ Keyser Quadrangle ✣ Homewood ✣ Baltimore, Maryland*

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# ORDER OF PROCESSION

## MARSHALS

JOHN BARTH
PAUL DANIELS
ARCHIE S. GOLDEN
GERALD S. GOTTERER
JAMES H. HUSTIS III
MARGARET E. KNOPF
ROBERT A. LYSTAD
FRANCIS E. ROURKE
THOMAS W. SIMPSON
CHARLES R. WESTGATE
J. WENDELL WIGGINS
KENNETH T. WILBURN
M. GORDON WOLMAN
JOHN P. YOUNG

## THE GRADUATES

*

## MARSHALS

ROGER A. HORN
PAUL R. OLSON

## THE DEANS
## MEMBERS OF THE SOCIETY OF SCHOLARS
## OFFICERS OF THE UNIVERSITY
## THE TRUSTEES

*

## MARSHALS

OWEN M. PHILLIPS
OREST RANUM

## THE FACULTIES

*

## CHIEF MARSHAL

EDYTH H. SCHOENRICH

## THE CHAPLAINS
## THE HONORARY DEGREE CANDIDATES
## THE PROVOST OF THE UNIVERSITY
## THE CHAIRMAN OF THE BOARD OF TRUSTEES
## THE PRESIDENT OF THE UNIVERSITY

*

# ORDER OF EVENTS

STEVEN MULLER
*President of the University, presiding*

* * *

## FANFARE

## PROCESSIONAL

*The audience is requested to stand as the Academic Procession moves into the area and to remain standing after the Invocation.*

"Trumpet Voluntary"
Henry Purcell

The Peabody Wind Ensemble
RICHARD HIGGINS, *Director*

*

## INVOCATION

REV. CHESTER WICKWIRE
*Chaplain, The Johns Hopkins University*

*

## THE NATIONAL ANTHEM

*

## GREETINGS

ROBERT D. H. HARVEY
*Chairman of the Board of Trustees*

*

## PRESENTATION OF NEW MEMBERS OF THE SOCIETY OF SCHOLARS

ARTHUR ADEL
ROBERT AUSTRIAN
JOHN HOWIE FLINT BROTHERSTON
DORLAND JONES DAVIS
WILLARD E. GOODWIN
SAMIR S. NAJJAR
KENNETH L. PICKRELL
OSCAR D. RATNOFF
RAY E. TRUSSELL

SCHOLARS PRESENTED BY RICHARD LONGAKER
*Provost of the University*

*

"Sonata From *Die Bankelsangerlieder*"
ANONYMOUS (c. 1684)

*

## CONFERRING OF HONORARY DEGREES

ALEXANDER DUNCAN LANGMUIR

FRANCIS JOHN PETTIJOHN

VIRGIL THOMSON

JOHN ROBERT EVANS

PRESENTED BY RICHARD LONGAKER

*

## ADDRESS

JOHN ROBERT EVANS
*President, University of Toronto*

*

## CONFERRING OF DEGREES ON CANDIDATES

### BACHELORS OF ARTS

*Presented by*

SIGMUND R. SUSKIND
*Dean, Faculty of Arts and Sciences*

* * *

### BACHELORS OF ENGINEERING SCIENCE

*Presented by*

V. DAVID VANDELINDE
*Dean, Faculty of Engineering*

* * *

### BACHELORS OF SCIENCE

*Presented by*

MALCOLM L. PETERSON
*Dean, School of Health Services*

* * *

### BACHELORS OF MUSIC

*Presented by*

ELLIOTT W. GALKIN
*Director, Peabody Conservatory of Music*

* * *

ASSOCIATES OF ARTS
ASSOCIATES OF SCIENCE
BACHELORS OF SCIENCE
BACHELORS OF SCIENCE IN ENGINEERING

*Presented by*

ROMAN J. VERHAALEN
*Dean, Evening College*

* * *

MASTERS OF SCIENCE
MASTERS OF EDUCATION
MASTERS OF LIBERAL ARTS
MASTERS OF ADMINISTRATIVE SCIENCE
CERTIFICATES OF ADVANCED STUDY IN EDUCATION
OR LIBERAL ARTS

*Presented by*

ROMAN J. VERHAALEN
*Dean, Evening College*

* * *

MASTERS OF SCIENCE
MASTERS OF HEALTH SCIENCE
MASTERS OF PUBLIC HEALTH

*Presented by*

DONALD A. HENDERSON
*Dean, School of Hygiene and Public Health*

* * *

MASTERS OF INTERNATIONAL PUBLIC POLICY
MASTERS OF ARTS IN INTERNATIONAL AFFAIRS
MASTERS OF ARTS

*Presented by*

ROBERT E. OSGOOD
*Dean, School of Advanced International Studies*

* * *

CONFERRING OF DEGREES ON CANDIDATES
*continued*

MASTERS OF SCIENCE
MASTERS OF SCIENCE IN CLINICAL ENGINEERING
MASTERS OF ARTS

*Presented by*

RICHARD S. ROSS
*Dean, School of Medicine*

* * *

MASTERS OF MUSIC

*Presented by*

ELLIOTT W. GALKIN
*Director, Peabody Conservatory of Music*

* * *

MASTERS OF SCIENCE IN ENGINEERING

*Presented by*

V. DAVID VANDELINDE
*Dean, Faculty of Engineering*

* * *

MASTERS OF ARTS

*Presented by*

SIGMUND R. SUSKIND
*Dean, Faculty of Arts and Sciences*

* * *

DOCTORS OF EDUCATION

*Presented by*

ROMAN J. VERHAALEN
*Dean, Evening College*

* * *

DOCTORS OF SCIENCE
DOCTORS OF PUBLIC HEALTH
DOCTORS OF PHILOSOPHY

*Presented by*

DONALD A. HENDERSON
*Dean, School of Hygiene and Public Health*

* * *

CONFERRING OF DEGREES ON CANDIDATES
*continued*

## DOCTORS OF PHILOSOPHY

*Presented by*

ROBERT E. OSGOOD
*Dean, School of Advanced International Studies*

* * *

## DOCTORS OF MEDICINE
## DOCTORS OF PHILOSOPHY

*Presented by*

RICHARD S. ROSS
*Dean, School of Medicine*

* * *

## DOCTORS OF MUSICAL ARTS

*Presented by*

ELLIOTT W. GALKIN
*Director, Peabody Conservatory of Music*

* * *

## DOCTORS OF PHILOSOPHY

*Presented by*

SIGMUND R. SUSKIND
*Dean, Faculty of Arts and Sciences*

* * *

## STATEMENT TO THE GRADUATES

STEVEN MULLER
*President of the University*

*

## BENEDICTION

REV. CLYDE SHALLENBERGER
*Director, Chaplaincy Service*
*Johns Hopkins Medical Institutions*

*

## RECESSIONAL

"Earle of Oxford's Marche"
WILLIAM BYRD

*The audience is requested to remain standing after the Benediction until the members of the faculties and graduates have left the area.*

## JOHNS HOPKINS SOCIETY OF SCHOLARS

The Johns Hopkins Society of Scholars was created on the recommendation of former President Milton S. Eisenhower and approved by action of the University Board of Trustees on May 1, 1967. The Society—the first of its kind in the nation—inducts former postdoctoral fellows at Johns Hopkins who have gained marked distinction in their fields of physical, biological, medical, social or engineering sciences or the humanities, and for whom at least five years have elapsed since their postdoctoral work. The Committee of the Johns Hopkins Society of Scholars, whose members are equally distributed among the academic divisions, elects the Scholars from the candidates nominated by the academic divisions having programs for postdoctoral fellows. Each division has the privilege of nominating up to three candidates for each election year. The Scholars are invested during the Commencement ceremony, the Commemoration Day ceremony, or on some similar occasion and are presented with a diploma and a medallion with black and gold ribbon to be worn around the neck with their academic costumes.

Today we honor eleven new members who have been elected this year to the Johns Hopkins Society of Scholars:

Dr. Arthur Adel received his undergraduate training and his Ph. D. degree in physics from the University of Michigan and undertook postdoctoral studies from 1935 to 1936 in the Department of Physics at Johns Hopkins. His contributions to physics and astronomy are in the area of spectroscopy, using techniques developed at Johns Hopkins by Henry Rowland and R. W. Wood. Dr. Adel's pioneering work on solar spectroscopy in the infrared region of the electromagnetic spectrum was a direct extension of Rowland's solar work in 1888. As a result, Dr. Adel discovered the presence of many trace constituents in the earth's atmosphere—the most important being nitrous oxide—and made many contributions to the spectroscopy of atmospheric molecules, paving the way for modern infrared astronomy. Dr. Adel recently retired as professor of physics and director of the Atmospheric Research Observatory at Northern Arizona University.

Dr. Robert Austrian received his undergraduate degree and also was trained in medicine at Johns Hopkins. From 1946 to 1947 and from 1949 to 1950, he did postdoctoral work under Dr. A. McGehee Harvey at the Johns Hopkins School of Medicine. He is now the John Herr Musser Professor and chairman of the Department of Research Medicine at the University of Pennsylvania School of Medicine, where he has made important contributions to knowledge of the molecular structure and biological characteristics of pneumococcus. Dr. Austrian is also one of the major contributors in the effort to develop a vaccine program for the prevention of pneumonia. A member of a number of advisory committees for the National Institutes of Health and a leader in the field of immunology, Dr. Austrian also has served on the Johns Hopkins University Board of Trustees.

Sir John Brotherston is professor of community medicine and dean emeritus of the medical faculty at the University of Edinburgh in Scotland. He received his medical education at that university and his public health education at the University of London School of Hygiene and Public Health. In 1949-50, he undertook postdoctoral studies with Dr. Ernest L. Stebbins in the Department of Public Health Administration at the Johns Hopkins School of Hygiene and

Public Health, where he was granted the Dr. P. H. degree in 1952. He was on leave of absence from the University of Edinburgh for a decade to serve as chief medical officer for Scotland, and in this capacity he served as a representative of the United Kingdom to the World Health Assembly and as a consultant to the World Health Organization. One of the most highly respected physicians in the United Kingdom, Dr. Brotherston was knighted by Queen Elizabeth in 1972 for his many accomplishments in the development of health and medical services, both nationally and internationally.

Dr. Constantine M. Dafermos left his native Greece to pursue his doctoral degree in mechanics at Johns Hopkins, after receiving a diploma in civil engineering from the National Technical University of Athens. He was a postdoctoral fellow in 1967-68 in the Department of Mechanics and Materials Science with Professor Jerald Ericksen. He has taught at Cornell University, and in 1971 he joined the faculty of Brown University, where today he is professor of applied mathematics. Dr. Dafermos is one of the handful of scientists who has made major progress in treating mathematical problems of nonlinear solid mechanics and has become the foremost expert on the physical assumptions underlying the governing equations in the related fields of parabolic systems, semigroups of operators, and ordinary differential equations in Banach space.

Dr. Dorland J. Davis received his medical training at the Johns Hopkins School of Medicine, and in 1938-39 he undertook postdoctoral studies with Dr. John K. Frost and Dr. Kenneth Maxcy in the Department of Parasitology at the School of Hygiene and Public Health. Director of the National Institute of Allergy and Infectious Diseases from 1964 to 1976, Dr. Davis now serves as a consultant to the Institute. He has carried out major research in infectious diseases, particularly on trypanosomiasis, psittacosis, hepatitis and influenza, and he is largely responsible for the development of the various centers world-wide for the study of infectious diseases.

Dr. Willard E. Goodwin studied as an undergraduate at the University of California and received his medical training at Johns Hopkins. He was a postdoctoral fellow from 1941 to 1942 and from 1946 to 1951 in the Divisions of Urology and Surgery at the School of Medicine. He has taught at the Brady Institute, and in 1951 he joined the faculty of the University of California at Los Angeles where he served as professor and chairman of the Division of Urology until 1970. In that setting he developed the foremost department of urology in the United States. A pioneer in the use of intestinal segments to reconstruct the urinary tract, Dr. Goodwin was one of the first urologists to engage in transplantation and is credited with the first use of corticosteroids for the treatment of homograft rejection in humans. He is now professor of surgery and pediatric urology at UCLA.

Dr. Samir Najjar received his undergraduate and medical training at the American University of Beirut in his native Lebanon. An international leader in the field of pediatric endocrinology, he pursued postgraduate studies at Johns Hopkins with Dr. Robert Cooke in the Department of Pediatrics and with Dr. Samuel Asper in the Department of Medicine. Today Dr. Najjar is chairman of the Department of Pediatrics at the American University of Beirut School of Medicine and is credited with establishing an outstanding department that attracts leading specialists in various fields of pediatrics.

Dr. Kenneth L. Pickrell, professor and chairman of the Division of Plastic, Maxillofacial and Oral Surgery at the Duke University Medical Center, received his medical training at Johns Hopkins where he did postdoctoral work with Dr. Alfred Blalock in the Department of Surgery from 1935 to 1944. Known internationally, Dr. Pickrell has served as president of the American Society of Plastic Surgery and as chairman of the American Board of Plastic Surgery. In 1961, he was elected North Carolina Physician-of-the-Year for his service to crippled children and adults. Highly regarded in the clinical practice of plastic surgery and as a teacher of plastic surgeons, Dr. Pickrell also has made major contributions to research and development in the field.

Dr. Oscar D. Ratnoff is a graduate of the Columbia University College of Physicians and Surgeons and served his internship and residency at Goldwater Memorial Hospital in New York. From 1946 to 1950, he undertook postdoctoral studies with Dr. George S. Mirick in the biological division of the Johns Hopkins Department of Medicine. A career investigator of the American Heart Association, Dr. Ratnoff is a foremost expert on problems relating to the coagulation of the blood. He is today professor of medicine at Case Western Reserve University Medical School and has received numerous awards for his pioneering work in factors affecting blood coagulation.

Dr. Ray E. Trussell, general director of the Beth Israel Medical Center in New York City, received his medical training at the University of Iowa, where he also served on the faculty of medicine as a microbiologist and epidemiologist. In 1946-47, he did postdoctoral work with Dr. Ernest L. Stebbins and Dr. Kenneth Maxcy in the Departments of Public Health Administration and Epidemiology at the Johns Hopkins School of Hygiene and Public Health. Dr. Trussell has had a distinguished career in medical administration and education. In the 1950's he designed and developed in Hunterdon County, New Jersey, the prototype of what is now known as a health maintenance organization. For a decade and a half, he served with distinction as director of the School of Public Health and Administrative Medicine at Columbia University. As general director of Beth Israel Medical Center, Dr. Trussell continues to develop new administrative procedures for high quality medical care.

Dr. Verna Wright, a native of England, received his medical training at the University of Liverpool. In 1958-59, he undertook postdoctoral studies in applied physiology in the Johns Hopkins Department of Medicine, where he began his research into the mechanism of joint stiffness. During his distinguished career in rheumatology, Dr. Wright has extended that study and has made numerous contributions to the management of patients with arthritis. Today, Dr. Wright is professor and director of the Rheumatism Research Unit of the University of Leeds School of Medicine. He has served as president or chairman of a number of British specialty societies relating to bioengineering.

## CITATIONS FOR HONORARY DEGREES

*Citation Read by*

RICHARD P. LONGAKER

*in Presenting*

ALEXANDER DUNCAN LANGMUIR

*for the Degree of Doctor of Humane Letters*

Internationally renowned epidemiologist, revered teacher. You have enlivened the practice of infectious disease epidemiology and prevention over more than three decades. You created the concept of surveillance and nurtured its application to a universe of problems of health and disease, ultimately throughout the world. Surveillance aided prevention. Today hundreds of thousands are alive and well because of your vision.

Through the Epidemic Intelligence Service, you bequeathed to the future a generation of leaders bearing the indelible Langmuirian stamp of excellence and integrity, always seasoned by an appreciation of the adventure implicit in the practice of public health and epidemiology. Among them the world's most distinguished practitioners.

Alexander Duncan Langmuir, in recognition of your extraordinary career and service to mankind, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

*Citation Read by*

RICHARD P. LONGAKER

*in Presenting*

FRANCIS JOHN PETTIJOHN

*for the Degree of Doctor of Humane Letters*

One of the most distinguished geologists ever to have taught at Johns Hopkins, your contributions have presented to the discipline rich and mature insights unsurpassed in the past generation. This generation witnessed greater advances in knowledge than any other period in the history of the exploration of sediments. In this adventure you have been the leader.

With a series of classic texts, you have established the study of sedimentary rocks on a sound scientific footing. At crucial times you were both innovator and final arbiter. Throughout the world, where geology is studied, your name and reputation are known and revered and with you, your University.

Francis John Pettijohn, for your achievements throughout a lifetime of scholarship, The Johns Hopkins University is honored to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

*Citation Read by*

RICHARD P. LONGAKER

*in Presenting*

VIRGIL THOMSON

*for the Degree of Doctor of Humane Letters*

Kansas City prodigy, Harvard scholar, and Parisian gentleman, you have been hailed as an "American Institution." For more than a half century, your activities as composer, critic, author, teacher, and lecturer have helped to shape forcefully the intellectual and cultural life of the United States.

The catalog of your compositional achievements is testimony to your dynamic productivity and diversity of expression. In more than 500 works, you have enhanced the repertoires of chamber music, opera, film, the concert hall, and the church. As critic of the *New York Herald Tribune* for 13 years, you created a distinguished and unique era in journalism; and in your books you have provoked layman and professional alike by the originality of your insights and the beauty of your prose.

Virgil Thomson, for all you have done and for all you represent, The Johns Hopkins University is honored to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

*Citation Read by*

RICHARD P. LONGAKER

*in Presenting*

JOHN ROBERT EVANS

*for the Degree of Doctor of Humane Letters*

Physician by training, Rhodes Scholar, clinical scientist, and university administrator, you have played a leading role in the development of national health policy in your native Canada.

Impressive personal qualities resulted in your selection at a young age as founding Dean of the Faculty of Medicine at McMaster University. There you were the chief architect of a program of medical education that broadened opportunity and restored the balance between humanitarian values and science in the practice of medicine.

As President of the University of Toronto—Canada's largest university—you unfailingly inspired confidence in the face of shrinking resources and shifting public priorities. Now rising to the surface are deep commitments to country as you prepare to stand for Parliament in order to contribute your great talents to the cause of national unity.

John Robert Evans, for your achievement and vast promise, The Johns Hopkins University is privileged to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

## THE UNIVERSITY MACE

The University Mace carried by the Chief Marshal, Dr. Edyth H. Schoenrich, was first used at the 1954 Commemoration Day Exercises. Eight symbols are hand wrought in sterling silver on an ebony staff. The symbols represent man's cultural development from ancient times, through the Middle Ages and the Renaissance, to the modern era.

## THE PRESIDENTAL INSIGNIA

University President Steven Muller is wearing the Presidential Insignia signifying the authority vested in the President by the Board of Trustees. It is a chain of sterling silver links worn around the neck. Portraits of each of the ten Johns Hopkins University Presidents are engraved on the faces of ten of the links. On the reverse are engraved the names and dates of office of each President. Ten blank links for future use are included. The University Seal completes the design.

## ACADEMIC DRESS

The custom of wearing academic dress stems from the Middle Ages, when scholars were also clerics and wore the costume of their monastic order. The hood was originally a cowl attached to the gown, which could be slipped over the head for warmth. The cap was originally round, but has changed to the varieties that we see today.

The gown varies for the respective degrees. The Bachelor's gown is worn closed and can be distinguished by its long, pointed sleeves. The Master's gown is designed to be open with the arms worn through the slits in the elbows of the sleeves. The Doctor's gown, also worn open, has full, bell-shaped sleeves with three horizontal bars stitched across the upper arm. There is a velvet panel draped around the neck and stitched down the front edges. This velvet trimming may be either black or the same color as the velvet border of the hood.

The hood also varies for the respective degrees. The Bachelor's and Master's hoods are of the same design, pointed at the base. The Bachelor's hood is three feet long; the Master's hood is three and one half feet long. The Doctor's hood is four feet long, of fuller shape and rounded at the base.

The hood is bordered with velvet, the color of which indicates the field of study in which the degree was earned:

*Dark blue — Philosophy*
*Light blue — Education*
*Orange — Engineering*
*Gold-yellow — Science*
*Green — Medicine*
*Salmon pink — Public Health*
*Pink — Music*
*Purple — Laws*
*White — Arts and Letters*

The silk lining of the hood represents the institution which granted the degree. If more than one degree is held, the gown and hood of the higher or highest degree is worn. The Johns Hopkins University has adopted an alternative costume to be used by all holding Johns Hopkins doctoral degrees, both earned and honorary. The costume consists of a gold robe with front and side panels in sable velvet and a six-sided Dutch academic cap with gold sweatband and tassel. The linings seen in today's academic procession may include:

Black, old gold chevron — Johns Hopkins
Light blue, white chevron — Columbia
Dark blue — Yale
Blue with white chevron — Duke
Dark blue, two orange chevrons — Illinois
Light blue, two white chevrons — North Carolina
Old gold, maroon chevron — Minnesota
Old gold — Iowa
Gold, blue chevron — California
Gold — Virginia
Purple, gold chevron — Northwestern
Purple — New York University
Bright red — Wisconsin
Plum, with scarlet — London
Maroon — Chicago
Crimson — Harvard
Carnelian, two white chevrons — Cornell
Cardinal — Stanford
Red, tri-chevron in center — Heidelberg
Dandelion yellow — Michigan
Maize, azure blue chevron — Sorbonne
Yellow and white — Rochester

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## THE UNIVERSITY MOTTO

Veritas vos liberabit.

The truth shall make you free.

*—St. John 8:32*

# AWARDS

## IN THE FACULTY OF ARTS AND SCIENCES

### ALEXANDER BUTLER PRIZE

for the best research paper by a first year graduate student in History

*Awarded to* David H. Glassberg
Daniel Snydacker

### ADOLF KATZENELLENBOGEN MEMORIAL PRIZE

for an outstanding paper in Art History

*Awarded to* Leslie Brubaker

### ARTHUR KOUGUELL PRIZE

to the outstanding undergraduate or BA/MA major in History

*Awarded to* Marc W. Steinberg

### ERNEST M. MARKS AWARD

in recognition of excellence in instruction in Chemistry

*Awarded to* Professor John W. Gryder

### C. RICHARD MARTIN AWARD

for outstanding work by a first or second year graduate student in Political Economy

*Awarded to* Robert Schwab

### PAUL A. McCOY PRIZE

for the most distinguished Masters Essay in Political Science

*Awarded to* Nathan Carliner Goldman
Albert Stanley Meiburg

### SARAH & ADOLPH ROSEMAN ACHIEVEMENT AWARD

in recognition of outstanding accomplishment in Chemistry

*Awarded to* Marc Chapdelaine
Mark Perks

### ROBERT BRUCE ROULSTON PRIZE

for excellence in German

*Awarded to* Pamela Selwyn
Doryl Jensen

### ROYAL SOCIETY OF ARTS SILVER MEDAL

for distinguished achievement by an undergraduate in the application of art or science to the field of commerce or industry, and for significant participation in student activities

*Awarded to* Charles Edward Hauck, Jr.

### JULIUS TURNER AWARD

for the most distinguished Senior Thesis in Political Science

*Awarded to* Lisa Robin Turgell

## IN THE EVENING COLLEGE

### DELTA SIGMA PI SCHOLARSHIP KEY

in the Division of Administration and Business for the highest average for the entire course

*Awarded to* M. Elizabeth Corrigan

### EDWARD J. STEGMAN, C. P. A., MEMORIAL AWARD

in the Division of Administration and Business for excellence in the study of accountancy

*Awarded to* M. Elizabeth Corrigan

### WALL STREET JOURNAL STUDENT ACHIEVEMENT AWARD

in the Division of Administration and Business for outstanding scholarship and exceptional promise of future success

*Awarded to* Robert Michael Tutin

## IN THE FACULTY OF MEDICINE

### HENRY STRONG DENISON SCHOLARSHIP

for excellence in biomedical research

*Awarded to*

Alan Nathaniel Baer
Mary Ellen Blair
Peter Anthony Campochiaro
Randy Frank Davis
Mark Bernard Effron
William Everett Grizzle
Donald F. Hull III
William Davis Ratnoff
Gerald Mark Reid

### W. BARRY WOOD, JR. STUDENT RESEARCH AWARD

*Awarded to* J. Devn Cornish

### THE JOHNS HOPKINS MEDICAL SOCIETY STUDENT RESEARCH AWARD

*Awarded to*

Mark Bernard Effron
David Alan Greenberg
Mary Gloria Kane
Gary Roy Pasternack

### LAUREL AND CLARENCE H. KOENNECKE AWARD

for most promise in the surgical field of gynecology

*Awarded to*

John Robert Beck
Marian Terese de Marinis
Mary Elizabeth Schaaf
Mary Jo Shaffer

### MICHAEL A. SHANOFF RESEARCH AWARD

for significant research contribution in the medical sciences

*Awarded to* George Richard Uhl

### CIBA AWARD FOR OUTSTANDING COMMUNITY SERVICE

*Awarded to* Patricia Marie Disharoon

### SANDOZ AWARD

for excellence in the field of Pharmacology

*Awarded to* Peter Anthony Campochiaro

## IN THE SCHOOL OF HYGIENE AND PUBLIC HEALTH

### JOHN C. HUME AWARD I

for significance of doctoral research in
the Department of Health Services Administration

*Awarded to* LARRY KESSLER

### JOHN C. HUME AWARD II

for academic excellence and professional promise
by a Master of Public Health graduate

*Awarded to* DONALD JOSEPH CURRY

## IN THE SCHOOL OF ADVANCED INTERNATIONAL STUDIES

### WILLIAM C. FOSTER AWARD

to a second year student for sound scholarship and a record of leadership
and distinguished service to SAIS exemplary of the high qualities
of integrity, loyalty and ability admired in Mr. Foster

*Awarded to* SHAKEEL MOZAFFAR

### CHRISTIAN A. HERTER FELLOWSHIP

to the member of the second year class with the most outstanding
record during his first year

*Awarded to* PAUL HUEN CHAN
JOEL JEFFERY SOKOLSKY

# HONOR SOCIETIES

## PHI BETA KAPPA

### From the Junior Class in the Faculties of Arts and Sciences and Engineering

Erian Anthony Arenare
Michael Henry Bar
Jacques Casparian
Chiayu Chen
Edward Burns Elmer
Andrew Mickle Fox
Howard Philip Grill
Gregory Lee Halac
Donald Eric Kern
Donald Joel Keusch
Charles Thomas McGlade
David Alan Meyer
Michael Albert Norko
Charles Perla
Anthony Demetrios Retikas
Bruce Sanford Wolock
Andrew Christopher Wu

### From Year I in the Faculty of Medicine

David Krusch
Roger Pomerantz
Harvey Serota
Edward Soffen
Dennis Thakor
Robert Weisgrau

### From the Baccalaureate Candidates in the Faculties of Arts and Sciences and Engineering

#### Elected in 1976-77

Patrick Ernest Barta
Don Edward Brinberg
Edward George Denstman
Daniel Joseph Diver
Gregory Keith Harmon
Carl Emil Kandutsch
Harold Stephen Kaye
Stephen Robert Palumbi
James Franklin Resch
Hal Stuart Wasserman
George Malcolm White

#### Elected in 1977-78

Joseph Marion Albanese
Richard Brian Alexander
Dan Robert Berlowitz
James Randal Brittain
Peter Stephen Conti
Neil Louis DeNunzio
Mitchell Dean Feldman
Lawrence Elliot Flaum
Karen Witkin Freedman
Carolyn Bea Gleason
Kathryn Lee Gleason
Scott Alan Gruber
Michael Philip Giuliano
Jan Lawrence Hammerman
Charles Edward Hauck, Jr.
Gary Stewart Ledley
Judson C. Lively III
Michael David London
David Alan Lowenthal
David Allen Mann
Lori Ann Marcus
Stephen Mark Massa
Michael Anthony Matera
Stephen Alan Miller
James Kenji Murashige
Gregory Leo Murphy
Wanda Jean Olson
Todd Frank Ovokaitys
George S. Owens
Craig Andrew Peters
Anthony F. Pinto III
William Michael Pruett
Bruce Mark Rubenstein
Timothy Dean Sahms
Bruce Howard Saul
Richard Jeffrey Scott
Ira Mark Shapiro
Susan Beth Sundell
Paula Jane Tarnapol
Paul Joseph Toscano
Noel B. Tulipan
William F. Urmey
Daniel Gerard Wilczek
Lisa Toni Witlin
Richard Drew Wortzel
Judith Clare Zosh

### From the Doctor of Medicine Candidates in the Faculty of Medicine

Richard Bryant Damewood
Richard Alan Lewis
Leigh Swartley Shuman
Kenneth Laurence Tyler
Thomas John Walsh

### From the Doctors of Philosophy Candidates in the Faculties of Arts and Sciences and Engineering

Abd El-Rahman Hussein El-Sawy
Terry L. Friesz
James Bernard Grotberg
Louise Rebecca Pasternack-Rafferty
Andre Sapir

## TAU BETA PI

### National Engineering Honor Society

From the Faculty of Engineering

Michael Glenn Absatz
Patrick Ernest Barta
James Randal Brittain
Roger Gary Cox
Scott Alan Gruber
Charles Edward Hauck, Jr.
Edward James Huck
Gary Stewart Ledley
James Kenji Murashige
George S. Owens
Steven Christopher Walsh

From the Evening College

Joseph Earle Baumgartner, III
Stephen Gregory Burg
John William Darr, Jr.
Martin Luther Doll, Jr.
Ian Robert Gilchrist
Alfred Herbert Judge
Robert Harry Mank
Keith Philip Mitchell
Richard Louis Neat
James Louis Piedrafita
Edward Byron Porter
Anthony Michael Popek
Richard Allen Schrenker
Gary Howard Sniegowski
Robert Henry Tegtmeier
Thomas Edward Thornton

## ALPHA OMEGA ALPHA

### Honor Medical Society

From the Faculty of Medicine

Alan Nathaniel Baer
Teresa Lynch Brennan
Peter Anthony Campochiaro
Allan Anthony Ciuffo
Richard Bryant Damewood
Randy Frank Davis
George William Dec, Jr.
Patricia Marie Disharoon
Walter Hartley Ettinger, Jr.
Lawrence Samuel Friedman
Lawrence S. Glassman
Thomas Edwin Harper
Carla Lynn Janson
Richard Alan Lewis
Keith Douglas Lillemoe
David William Rattner
Leigh Swartley Shuman
Kenneth Laurence Tyler
Thomas John Walsh

## HONORS

Baccalaureate Candidates in the Faculties of Arts and Sciences and Engineering

*Graduating with General Honors*

Wayne A. Abernathy
Michael Glenn Absatz
Daniel Joseph Adler
Joseph Marion Albanese
Russell Dale Albert
Richard Brian Alexander
Kim Barbara Arnowitt
Lawrence Bruce Aronhime
Steve Michael Audenaert
Orly Avitzur
James William Baker
Thomas MacLeod Ball
Patrick Ernest Barta
Betsy Jane Becker
Jonathan Bell
Dan Robert Berlowitz
Keith Alfred Blom
Bruce Scott Bochner
Craig Cesare Bonanni
Don Edward Brinberg
James Randal Brittain
Christopher Bryant Brooks
Rosanne Dolores Carrero
Arthur W. Chapin
Streamson Coo Chua
Robert Ciaffa
Lisa Marie Cibik
Jeffrey Irvin Cohen
Jeffrey Lewis Cohen
Peter Stephen Conti
Roger Gary Cox
Marilyn K. Groghan
John Charles Darrell
Michele Jean Davis
Paul Scott Denker
Edward George Denstman

*Continued on next page*

Neil Louis DeNunzio
Greg Alan Diamond
Daniel Joseph Diver
Steven Dubner
Lawrence Howard Durban
Ann Rochelle Eisenberg
Robert Bruce Elson
Joseph Michael Failla
Karen June Feinstein
Mitchell Dean Feldman
Kenneth Scott Fellman
Warren Fink
Lawrence Elliot Flaum
Suzanne Marie Fleischauer
Marcia Grace Foggan
Karen Witkin Freedman
Philip Louis Garlett
Peter John Gianas
Sheldon Alexander Gisser
Richard Stephen Gitomer
Michael Philip Giuliano
Carolyn Bea Gleason
Kathryn Lee Gleason
Eric Robert Glitzenstein
Michael Joshua Goldberg
Lisa Debra Goldwasser
Mark Joseph Goodwin
Catherine M. Gore
Steve Ronald Graber
Glen Robert Grell
Joseph B. Griffith
Scott Alan Gruber
Georgina Maria Guernica
Jan Laurence Hammerman
Gregory Keith Harmon
Mark L. Harrison
Charles Edward Hauck, Jr.
Theodore Stokes Hewson
Peter John Holewinski III
Bruce Roger Horowitz
Edward James Huck
Rhea Adele Ivins
Joel Arthur Jacobson
José Francisco Jiménez
Frederic L. Johnstone
Charles Peter Juster
Ruth Scotti Kaminer
Carl Emil Kandutsch
James F. Kapustiak
Karen Margaret Kaska
Harold Stephen Kaye
Gian Kaur Khalsa
Kelly Lynn K'Meyer
Patricia Katherine Kokotailo
Barry Evan Kosofsky
Peter Koziar
Joseph Hoffmann Krug, Jr.
Leonard Arnold Kusnitz
Jerome James LaCorte
Otto Scott Lauter
Gary Stewart Ledley
William Tsung-Liang Lee
Jeffrey Richard Levenson
Kevin Lorne Little
Donna Lucy Livant
Judson C. Lively III
Thomas Hall Locraft III
Michael David London
David Alan Lowenthal
Regina Patrice Mahoney
Frank Maldarelli
David Allen Mann
Patrick Vincent Marasco, Jr.
Lori Ann Marcus
Annabelle Márquez
Paul Maslen
Stephen Mark Massa
Michael Anthony Matera
Jan E. Mathisen
Edward John McManus
Thomas Owen Melia
Kenneth Harrison Meltzer
Dan J. Mendelson
Gail Jeanne Mick
Adrien Rothschild Miles
Stephen Alan Miller
Charles John Minero
James Kenji Murashige
Gregory Leo Murphy
Harry Joseph Murphy
Lawrence Edward Myers
Eleanor Cynthia Nadbielny
Lawrence Vahan Najarian
Richard James Nelson
Robert Davis Oates
Wanda Jean Olson
Ellen Colleen Onishchuk
Max Endel Ots
Todd Frank Ovokaitys
Kim Ranell Owen
George S. Owens
Stephen Robert Palumbi
Richard Paul Pembroke
Craig Andrew Peters
Anthony F. Pinto III
William Michael Pruett
Jack A. Ragheb
Randall Frank Randazzo
Gregory Eugene Rea
Cheryl Ann Reed
Barry Mitchell Renz
James Franklin Resch
James Price Restrepo
Rodger Owen Robertson
Charles Howard Rosenfarb
Peter Alan Rosenstein
Gary Elliot Rosenthal
David Joseph Roth
Bruce Mark Rubenstein
Robert Alan Sahl
Timothy Dean Sahms
Bruce Howard Saul
Carola Friederike Sautter
Jane Alison Scarbrough
Ina Renée Schechter
Amy Nan Schectman
Peter John Schmieding
James Anthony Schoettler, Jr.
Robert James Schultz
Rachel Ellen Schwartz
Richard Jeffrey Scott
Janice Shack
Ira Mark Shapiro
Charles Brandford Silvia, Jr.
Virginia Lee Slingland
Marc William Steinberg
Henry J. Stern
Susan Beth Sundell
Susan Jolie Swerdloff
Mark Adams Talamini
Pamela Anne Talley
Paula Jane Tarnapol
Robert Torop
Paul Joseph Toscano
Kathleen Elizabeth Troy
Noel B. Tulipan
Frances Julia Turisco
William F. Urmey
Myron Anthony Waclawiw
Misako Wagatsuma
Steven Christopher Walsh
David Harris Warren
Hal Stuart Wasserman
James Lewis Adrian Webb, Jr.
Kennneth Raymond Weber
George Malcolm White
Daniel Gerard Wilczek
Gary Evan Windler
Richard Drew Wortzel
Samuel Pai-Sun Yang

## Baccalaureate Candidates in the Faculties of Arts and Sciences and Engineering

### *Graduating with Departmental Honors*

Wayne A. Abernathy
Michael Glenn Absatz
Patrick Ernest Barta
Betsy Jane Becker
Dan Robert Berlowitz
James Randal Brittain
Christopher Bryant Brooks
Arthur W. Chapin
John Vincent Church
Howard Jay Drew
Steven Dubner
Ann Rochelle Eisenberg
Robert Bruce Elson
Joseph Michael Failla
Karen June Feinstein
Suzanne Marie Fleischauer
Marcia Grace Foggan
Karen Witkin Freedman
Philip Louis Garlett
Martha Jane Gates
Sheldon Alexander Gisser
Eric Robert Glitzenstein
Michael Joshua Goldberg
Mark Joseph Goodwin
Steve Ronald Graber
Glen Robert Grell
Joseph B. Griffith
Scott Alan Gruber
Georgina Maria Guernica
Jan Laurence Hammerman
Charles Edward Hauck, Jr.
Kenneth Michael Hoffman
Peter John Holewinski III
Edward James Huck
Joel Arthur Jacobson
Joanne Rose Julius
Ruth Scotti Kaminer
Karen Margaret Kaska
Harold Stephen Kaye
Loree Jayne Keleher
Kelly Lynn K'Meyer
Peter Koziar
Barry Evan Kosofsky
Michel Steven Krug
Leonard Arnold Kusnitz
Gary Stewart Ledley
Cynthia Louise Leppert
Nancy Carol Loeb
David Alan Lowenthal
Regina Patrice Mahoney
Lori Ann Marcus
Paul Maslen
Michael Anthony Matera
William Edward McEnroe
Thomas Owen Melia
Gail Jeanne Mick
Stephen Alan Miller
Charles John Minero
James Kenji Murashige
Gregory Leo Murphy
Lawrence Edward Myers
Eleanor Cynthia Nadbielny
Richard James Nelson
Bradley James Niziak
Susan Furnald Obrecht
Wanda Jean Olson
George S. Owens
Richard Paul Pembroke
Susanne Louise Pohl
Stephen J. Rawson
Charles Howard Rosenfarb
Bruce Mark Rubenstein
Timothy Dean Sahms
Carola Friederike Sautter
Ina Renée Schechter
Amy Nan Schectman
James Anthony Schoettler, Jr.
Robert James Schultz
Richard Stuart Simon
Marc William Steinberg
Henry J. Stern
John Alan Stern
Susan Beth Sundell
Paula Jane Tarnapol
Robert Torop
Paul Joseph Toscano
Lisa Robin Turgell
Stephen Jacob Vezeris
Misako Wagatsuma
Mary Catherine Waters
James Lewis Adrian Webb, Jr.
Kenneth Raymond Weber
Edward Michael Zimmerman

### *Graduates from the Biology Honors Program*

Streamson Coo Chua
Donna Lucy Livant
Stephen Mark Massa
Stephen Robert Palumbi

### *Graduates from the Humanistic Studies Honors Program*

Rosanne Dolores Carrero
Michael Philip Giuliano
Bradley Richard Stark

## Baccalaureate Candidates in The Evening College

### *Graduating with Honors*

Gary William Albrent
Joseph Erle Baumgartner III
Diane Demerast Becker
Anne Clarke Bremner
Stephen Gregory Burg
M. Elizabeth Corrigan
Martin Luther Doll
Edwin Taylor Duke
Audrey S. Fisher
Sarah Stoll Howell
Kathleen Janette Jones
Kathleen Theresa Linsenmeyer
Robert Harry Mank
Keith Phillip Mitchell
Paul N. Orth
James Louis Piedrafita
Edward Byron Porter
Ilse Helmke Richards
Albert Russell Richburg II
Yves Alain Rivelois
Richard Allan Schrenker
Solomon H. Singer
Gary Howard Sniegowski
Samuel Isaac Sutton
Robert Henry Tegtmeier
Thomas Edward Thornton
Robert Michael Tutin
Evan Willner
Elizabeth Stein Yager

# CANDIDATES FOR DEGREES

As of May 16, 1978

A number of the students included in the lists which follow completed their degree requirements earlier in the academic year and could not be present today to receive their degrees in person.

## BACHELORS OF ARTS

### in the Faculty of Arts and Sciences

Wayne A. Abernathy, of Seneca Falls, N. Y.
Clarke Bradley Aburn, of Towson, Md.
Patrick K. Alban, of Baltimore, Md.
Joseph Marion Albanese, of Valley Stream, N. Y.
Russell Dale Albert, of Shorewood, Wis.
Andrew William Albstein, of Beechhurst, N. Y.
Angela Maria Aleiss, of Phoenix, Ariz.
Richard Brian Alexander, of Westminster, Md.
Robert Adrian Alworth, of Glen Ridge, N. J.
Merrill Ansher, of Silver Spring, Md.
Kim Barbara Arnowitt, of Englewood Cliffs, N. J.
Lawrence Bruce Aronhime, of Baltimore, Md.
Laila Kathleen Atallah, of Bethesda, Md.
Steve Michael Audenaert, of Gulfport, Miss.
Orly Avitzur, of Allentown, Pa.
Hasan Huseyin Babaturk, of Perry Point, Md.
Suzanne Margaret Bachur, of Towson, Md.
James William Baker, of Cincinnati, Ohio
Sherman Baker, Jr. of Cambridge, Mass.
Richard Lawrence Baldwin, of Minneapolis, Minn.
Thomas MacLeod Ball, of West Caldwell, N. J.
Sara Gerardina Barañano, of Baltimore, Md.
Richard Carroll Barrack, of Baltimore, Md.
Ilene Ruth Baylinson, of Montgomery, Ala.
Betsy Jane Becker, of Elkridge, Md.
Jonathan Bell, of Providence, R. I.
Robert Stanley Bennett, of Baltimore, Md.
William Benjamin Bergen, Jr., of Phoenix, Md.
Owen Josef Bergman, of Woodmere, N. Y.
Dan Robert Berlowitz, of Dobbs Ferry, N. Y.
Ronald Gary Bialek, of New Hyde Park, N. Y.
John Paul Biggs, of Baltimore, Md.
Jacqueline Raynal Blair, of West Orange, N. J.
Kenneth Darcy Blake, of Dumont, N. J.
Lucinda Bristol Blakeslee, of Baltimore, Md.
Keith Alfred Blom, of Timonium, Md.
Raphael D. Blumberg, of Baltimore, Md.
Bruce Scott Bochner, of Evanston, Ill.
Deborah Jean Bolanowski, of Clark, N. J.
Craig Cesare Bonanni, of Mercerville, N. J.
Jeffrey Lance Booher, of Elkton, Md.
Jeannette Louise Boyer, of Baltimore, Md.
Paul Joseph Boyle, of Annapolis, Md.
Don Edward Brinberg, of Yonkers, N. Y.
Isabel Brones, of Buenos Aires, Argentina
Christopher Bryant Brooks, of Bethesda, Md.
Stuart Mitchell Brown, of Silver Spring, Md.
David Gordon Buker, of Baltimore, Md.
Scott Douglas Burleson, of Bloomington, Ind.
Kay Byram, of Baltimore, Md., A. A. Montgomery College, 1976.
Deborah Eileen Cabin, of Towson, Md.
James Aloysius Cahill III, of Towson, Md.
James Bernard Cahill, of Burlington, Mass.
Kathleen Virginia Caldwell, of Annapolis, Md.
Paula Maria Canelos, of Baltimore, Md.
James Martin Carr, of Bowie, Md.
Rosanne Dolores Carrero, of Palisades Park, N. J.
Susan Jennifer Carter, of Mendham, N. J.
Jervernia Yvette Chaney, of Atlanta, Ga.
Rita Chang, of Hastings-on-Hudson, N. Y.
Arthur W. Chapin, of Alexandria, Va.
Beth Chaty, of Trenton, N. J.
David Lawrence Chesanow, of East Islip, N. Y.
S. Blaise Chromiak, of Riverdale, Md.
Streamson Coo Chua, of Kingston, N. Y.
John Vincent Church, of Towson, Md.
Robert Ciaffa, of Brookyn, N. Y.
Lisa Marie Cibik, of Pittsburgh, Pa.
Charles Ira Clarvit, of Baldwin, N. Y.
John Lee Coad, Jr., of Baltimore, Md.
Jeffrey Irvin Cohen, of Baltimore, Md.

Jeffrey Lewis Cohen, of Forest Hills, N. Y.
Virginia Lynn Comstock, of Lexington, Mass.
James Joseph Condon, of Uniondale, N. Y.
John Michael Connor, of Baltimore, Md.
Peter Stephen Conti, of Spring Valley, N. Y.
Brian Crockett Cooley, of Bethesda, Md.
Augusto Alfonso Cordova, of Newark, Del.
Roger Gary Cox, of White Marsh, Md.
Marilyn K. Croghan, of Boise, Idaho
Vanessa Elizabeth Crum, of Providence, R. I.
Richard Joseph D'Agostino, of Manhasset, N. Y.
Knut Danielsen, of Cos Cob, Conn.
John Charles Darrell, of Randallstown, Md.
Diane Kathryn Davies, of Tulsa, Okla.
Linda Marie Davis, of Niagara Falls, N. Y.
Michele Jean Davis, of Bridgewater, N. J.
Edward Joseph DeDomenico, of Hicksville, N. Y.
Paul Scott Denker, of East Windsor, N. J.
Edward George Denstman, of Cranford, N. J.
Neil Louis DeNunzio, of New City, N. Y.
Joseph Francis Devlin, of Annapolis, Md.
Donald Tower Deyo, of Ridgewood, N. J.
Greg Alan Diamond, of Kew Gardens, N. Y.
Robert Louis DiGiovanni, of Old Tappan, N. J.
Daniel Joseph Diver, of East Islip, N. Y.
Howard Jay Drew, of Springfield, N. J.
Steven Charles Drill, of Reston, Va.
Steven Dubner, of Atlanta, Ga.
Richard Dominic Dupre, of Weston, Conn.
Lawrence Howard Durban, of Monsey, N. Y.
Paul Joseph Dwyer, of Seattle, Wash.
Steven William Eaddy, of Great Neck, N. Y.
Charles Paul Eck, of Morristown, N. J.
Sandy R. Edgerton, of Charlottesville, Va.
Ann Rochelle Eisenberg, of Teaneck, N. J.
Jeffrey Paul Eliasoph, of New York, N. Y.
Robert Bruce Elson, of New York, N. Y.
Katherine Ann Englar, of Gaithersburg, Md.
David Leslie Ethridge, of Bel Air, Md.
Bruce Alan Ettinger, of North Caldwell, N. J.
Joseph Michael Failla, of West Hempstead, N. Y.
Frank Anthony Faillace, of Old Bethpage, N. Y.
Gerald Anthony Faraino, of Baltimore, Md.
Mary Beth Fasano, of Houston, Texas
Robin Lee Fegely, of Upperco, Md.
Valerie Joan Fein, of Brentwood, N. Y.
Karen June Feinstein, of Blue Point, N. Y.
Kenneth Mark Feldman, of Far Rockaway, N. Y.
Mitchell Dean Feldman, of Kensington, Md.
Kenneth Scott Fellman, of West Orange, N. J.
Abbott Seth Fenichel, of Smithtown, N. Y.
Warren Fink, of Brooklyn, N. Y.
Louis Douglas Finney, of Amarillo, Texas
Prudence Winslow Fisher, of Mandarin, Fla.
Joan Rebecca Fishman, of Elizabeth, N. J.
Lawrence Elliot Flaum, of New Hyde Park, N. Y.
Suzanne Marie Fleischauer, of Ellicott City, Md.
Caren Michele Fleit, of New Rochelle, N. Y.
Mark Henry Fleming, of Adelphi, Md.
Marcia Grace Foggan, of Bridgewater, N. J.
Thomas Andrew Foley, of Katonah, N. Y.
Alan Lindsay Forthman, of Baltimore, Md.
William Robert Foster, of Providence, R. I.
Bruce Fox, of Wantagh, N. Y.
Karen Loraine Frayer, of Pittsburgh, Pa.
Karen Witkin Freedman, of Baltimore, Md.
Abraham Levy Friedman, of Arlington, Va.
Paul Joshua Friedman, of Brooklyn, N. Y.
M. Susanne Fronczak, of Gary, Ind.
Peter Gadzinski, of Colts Neck, N. J.
Michele Therese Gallati, of White Plains, N. Y.
Leland Anderson Gallup, of Arlington, Va.
Brian George Gapsis, of Arbutus, Md.
Eric Paul Garland, of Richland, Wash.
Philip Louis Garlett, of Denver, Colo.
Martha Jane Gates, of East Norwalk, Conn.
Martin Jason Geitz, of Suffield, Conn.
Farid Gharagozloo, of Tehran, Iran
Peter John Gianas, of Wellsville, N. Y.
Barry Stephen Gilbert, of Quincy, Mass.
Philip Alain Gilly, of Rockville, Md.
Brian Andrew Gilman, of Glen Cove, N. Y.
Sheldon Alexander Gisser, of Norwich, Conn.
Richard Stephen Gitomer, of Greensburg, Pa.
Michael Philip Giuliano, of Baltimore, Md.
Carolyn Bea Gleason, of Chevy Chase, Md.
Kathryn Lee Gleason, of Chevy Chase, Md.
Eric Robert Glitzenstein, of New York, N. Y.
Michael Joshua Goldberg, of Norristown, Pa.
Lisa Debra Goldwasser, of Brooklyn, N. Y.
Harold Mark Goll, of Attleboro, Mass.
Cosmse Anibal Gomez-Patino Tejada, of Santo Domingo, Dominican Republic
Mark Joseph Goodwin, of Worcester, Mass.
Catherine M. Gore, of Towson, Md.
Debra Jo Gorman, of Framingham, Mass.
David Harrison Grabarek, of Durham, N. C.
Steve Ronald Graber, of Memphis, Tenn.
Christopher Michael Gray, of Louisville, Ky.
Jonathan Greenberg, of Schenectady, N. Y.
Richard Joel Greenfield, of Newark, Del.
David Scott Greisler, of Rockville, Md.
Glen Robert Grell, of Carlisle, Pa.
Joseph B. Griffith, of Alexandria, Va.
Georgina Maria Guernica, of Westminster, Md.
Faith Alice Hackett, of Elizabeth, N. J.
Charles Edward Hamilton, Jr., of Columbia, Md.
William Newell Hamilton, of Greensburg, Pa.
Jan Lawrence Hammerman, of Baltimore, Md.
Bruce Edwin Hanley, of Baltimore, Md.
Robin G. Hargrove, of Newfield, N. J.
Gregory Keith Harmon, of Westminster, Md.
Mark L. Harrison, of Woodbury, N. Y.
Gerhard Allan Harrop, of Baltimore, Md.
David Wesley Hawk, of Essex, Md.
Patrick Edward Heaghney, of St. Louis, Mo.
Theodore Stokes Hewson, of New Canaan, Conn.
Jeffrey Francis Higdon, of Towson, Md.
Daniel Hirschhorn, of Roslyn, Long Island, N. Y.
Shane Philip Hoffman, of Baltimore, Md.

Peter John Holewinski III, of Salinas, Calif.
Peter Helmuth Hollinger, of Pittsford, N. Y.
Andrew Wayne Hollis, of Towson, Md.
Dwight Allan Holmberg, of Wellesley, Mass.
Bernard Philip Horn, of University Park, Md.
Peter Julian Horneffer, of New York, N. Y.
Bruce Roger Horowitz, of Bellmore, N. Y.
Paul Richard Burns Horowitz, of Monticello, N. Y.
Marguerite Eleanor Howard, of Baltimore, Md.
Mary Ellen Hrouda, of Racine, Wis.
Soo-Chung Hwang, of Seoul, Korea
Ron Iltis, of Cincinnati, Ohio
Charles Joseph Ingber, of Marblehead, Mass.
John Douglas Ingraham, of Hingham, Mass.
Rhea Adele Ivins, of Chester, Pa.
William Howard Ivry, of Storrs, Conn.
Donna Lynne Jackson, of Philadelphia, Pa.
Mathew Jacob, of West Orange, N. J.
Joel Arthur Jacobson, of Baltimore, Md.
Carole Alison Jaffe, of Livingston, N. J.
José Francisco Jiménez, of San José, Costa Rica
George James Johnson, of Bethpage, N. Y.
Frederic L. Johnstone, of Madison, N. J.
Karen Andrea Jones, of Baltimore, Md.
Donald Philip Judges, of Towson, Md.
Joanne Rose Julius, of Glenarden, Md.
Charles Peter Juster, of Valley Forge, Pa.
Susan Rebecca Kahan, of Stamford, Conn.
Ruth Scotti Kaminer, of New York, N. Y.
Carl Emil Kandutsch, of Bar Harbor, Maine
James F. Kapustiak, of Palos Park, Ill.
Karen Margaret Kaska, of Arlington, Texas
Harold Stephen Kaye, of Stamford, Conn.
Richard Michael Keating, of Baltimore, Md.
Loree Jayne Keleher, of Wichita, Kans.
Michael Read Keller, of Baltimore, Md.
James Francis Kennedy, Jr., of Baltimore, Md.
Jocelyn Kennedy, of New Orleans, La.
Kimberlee Ray Kepper, of Evanston, Ill.
Gian Kaur Khalsa, of Baltimore, Md.
Deborah Lucille Kibler, of Staunton, Va.
John Patrick Kirby, of Towson, Md.
Harry R. Kleiman, of Oreland, Pa.
Kelly Lynn K'Meyer, of Cranford, N. J., A.A. Union College, 1976.
Anthony Gerrard Knowles, of Nassau, Bahamas.
Patricia Katherine Kokotailo, of Woodbury, N. J.
Deborah Ann Koricke, of Buffalo, N. Y.
Barry Evan Kosofsky, of North Hills, N. Y.
Diane Marie Kotras, of Bel Air, Md.
Joseph Hoffmann Krug, Jr., of Englewood, N. J.
Michel Steven Krug, of St. Paul, Minn.
Henry John Kupperman, of New York, N. Y.
Arthur Bruce Kurpit, of Old Bethpage, N. Y.
Leonard Arnold Kusnitz, of Fairfield, Conn.
Kenneth John Kutalek, of Hightstown, N. J.
Patricia Etsuko Kuwabara, of Silver Spring, Md.
Cora Dissette Lackey, of Washington, D. C.
Jerome James LaCorte, of Cockeysville, Md.
Anthony Aloysius Lanahan, Jr., of Wayne, Pa.
Mark David Landes, of London, Ohio
William Crowley Lauerman, of Ridgewood, N. J.
Otto Scott Lauter, of Wilmington, Del.
Howard Allyn Leadbetter II, of Carlisle, Mass.
Allison Louise Leary, of Seattle, Wash.
Daniel A. Lebar, of Metuchen, N. J.
William Tsung-Liang Lee, of Taipei, Taiwan
Dennis Leone, of Toms River, N. J.
Cynthia Louise Leppert, of Baltimore, Md.
Jeffrey Richard Levenson, of Pikesville, Md.
Jeremy Ian Levin, of Merion, Pa.
Paul Richard Levin, of Marengo, Ill.
David William Lewing, of Wilmington, Del.
Ellen Carol Liberman, of Baltimore, Md.
David Eugene Lilienfeld, of Pikesville, Md.
Kevin Lorne Little, of Princeton Junction, N. J.
Donna Lucy Livant, of Gaithersburg, Md.
Judson C. Lively III, of Alexandria, Va.
Joseph Kramer Lobl, of Lindenhurst, N. Y.
Thomas Hall Locraft III, of Potomac, Md.
Nancy Carol Loeb, of Huntingdon Valley, Pa.
Harry Michael Lohmeyer, of Catonsville, Md.
Michael David London, of Shaker Heights, Ohio
Virginia Pauline Louloudes, of Bridgeport, Conn.
Randy Thomas Lovallo, of Torrington, Conn.
David Alan Lowenthal, of Valley Stream, N. Y.
Alan Richard Lustig, of Merrick, N. Y.
Rhona Sue Lyons, of Spring Valley, N. Y.
Regina Patrice Mahoney, of Montvale, N. J.
Frank Maldarelli, of East Rockaway, N. Y.
David Allen Mann, of Springfield, Va.
David Robert Mannix, of District Heights, Md.
Cary Hilton Mantell, of Tenafly, N. J.
Patrick Vincent Marasco, Jr., of Andover, Mass.
Walt R. Marchant, of Timonium, Md.
Lori Ann Marcus, of Oceanside, N. Y.
Annabelle Márquez, of Caguas, Puerto Rico
Paul Maslen, of Hereford, Md.
Stephen Mark Massa, of Rochester, N. Y.
Michael Anthony Matera, of Oakland, Calif.
Jan E. Mathisen, of Poughkeepsie, N. Y.
William Lee Maynard, of Prestonsburg, Ky.
Ernesto Nicolás Mayoral, of Rio Piedras, Puerto Rico
Robert Duane McCoy, Jr., of Randallstown, Md.
William Edward McEnroe, of Towson, Md.
Margaret Mary McGuire, of Baltimore, Md.
Michael Sean McHale, of Baltimore, Md.
Edward John McManus, of Rutherford, N. J.
Kevin Bernard McParland, of Brentwood, N. Y.
Thomas Owen Melia, of Centerport, N. Y.
Kenneth Ray Melton, of Richlands, N. C.
Kenneth Harrison Meltzer, of Baltimore, Md.
Dan J. Mendelson, of Brooklyn, N. Y.
Robert Ian Mesch, of Buffalo, N. Y.
Richard Loeb Meyer, Jr., of Meridian, Miss.
Cathy Gail Michaelson, of Albertson, N. Y.
Gail Jeanne Mick, of Staten Island, N. Y.
Anthony Michael Miele, of Brooklyn, N. Y.
Adrien Rothschild Miles, of Baltimore, Md.
Frank Joseph Miller II, Friendship, Md.

Sarah Elizabeth Miller, of Glencoe, Ill.
Stephen Alan Miller, of Fresh Meadows, N. Y.
Charles John Minero, of Fairview, N. J.
Erik Paul Molander, of Homewood, Ill.
Lynn Morgenlander, of North Massapequa, N. Y.
Joan Marie Morton, of Detroit, Mich.
Dennis Jimmy Mujsce, of East Quogue, N. Y.
Anuradha Mukherjee, of Baltimore, Md.
Gregory Leo Murphy, of Maplewood, N. J.
Harry Joseph Murphy, of Palatine, Ill.
Mahmoud Hussein Mustafa, of Bethesda, Md.
Lawrence Edward Myers, of Fort Lauderdale, Fla.
Eleanor Cynthia Nadbielny, of Bridgewater, N. J.
Lawrence Vahan Najarian, of Englewood Cliffs, N. J.
Brenda Louise Nalbandian, of Manhasset Hills, N. Y.
Lillian Rose Nayder, of Roslyn, N. Y.
Joseph Edward Neigel, of Glen Rock, N. J.
Cornelius Patrick Nelan, of West Keansburg, N. J.
Hanh Thi Nguyen, of Chevy Chase, Md.
Ronald John Nicola, of Catonsville, Md.
Michael Louis Nieder, of Lincolnwood, Ill.
Bradley James Niziak, of North Andover, Mass.
Richard William Nomady, of Annapolis, Md.
Robert Davis Oates, of Milton, Mass.
Anne Marie O'Bannon y Viaplana, of Manila, Philippines
Kristina Marie Obom, of Succasunna, N. J.
Susan Furnald Obrecht, of Summit, N. J.
Barbara Gwen O'Connell, of Milwaukee, Wis.
Robert James O'Hara, of Danbury, Conn.
Wanda Jean Olson, of Severna Park, Md.
Frank John Olszewski, of Dundalk, Md.
Siniti Oneda, of Baltimore, Md.
Michael Joseph O'Neill, of Massapequa, N. Y.
Ellen Colleen Onishchuk, of Cherry Hill, N. J.
Donald Warren Osborn, of Lombard, Ill.
Max Endel Ots, of Råneå, Sweden.
Todd Frank Ovokaitys, of Milwaukee, Wis.
Kim Ranell Owen, of Bethesda, Md.
Stephen Robert Palumbi, of Parkville, Md.
Vincent John Paluzzi, of Lyndhurst, N. J.
Barbara C. Papas, of Silver Spring, Md.
Sarah Kilsoon Park, of Northeast, Md.
Jeffrey John Parks, of Greensburg, Ohio
Sanjay D. Patel, of Ambler, Pa.
Richard Paul Pembroke, of Baltimore, Md.
Paul Kearney Penniman, of Pleasantville, N. Y.
Wilfredo Perez, of Columbia, Md.
Matthew Regis Peroutka, of Baltimore, Md.
Craig Andrew Peters, of Salem, Oreg.
Christopher Ian Phillips, of Baltimore, Md.
John J. Piccone, of Havertown, Pa.
Neal Richard Pilzer, of Tarrytown, N. Y.
Anthony F. Pinto III, of Staten Island, N. Y.
Roman Podolak, of Baltimore, Md.
Susanne Louise Pohl, of Las Palmas de Gran Canaria, Spain
John William Poole, of Virginia Beach, Va.
William Michael Pruett, of Baltimore, Md.
William Paul Quinn, Jr., of Glenside, Pa.
Jack A. Ragheb, of Bloomfield Hills, Mich.
Clifford Lloyd Rames, of Chester, N. J.
Karl Ernst Ranberg, New Cumberland, Pa.
Randall Frank Randazzo, of Chicago, Ill.
Stephen J. Rawson, of Lancaster, N. Y.
Gregory Eugene Rea, of Tabernacle Township, N. J.
Cheryl Ann Reed, of Wolcott, N. Y.
Amy Dawn Rehfield, of Pasadena, Calif.
Mary Anne Reilly, of Tuckahoe, N. Y.
Robert Paul Reiser, of Hastings-on-Hudson, N. Y.
Barry Mitchell Renz, of Solana Beach, Calif.
James Franklin Resch, of Baltimore, Md.
James Price Restrepo, of Wyomissing, Pa.
Keno Ray Rider, of Bristol, Md.
Vivian Lynn Ritter, of Fairfax, Va.
David Jay Robbins, of King of Prussia, Pa.
Rodger Owen Robertson, of Timonium, Md.
Joseph John Rodrigue, of Montréal, Quebec, Canada
Margaret Ann Rominger, of Glendale, N. Y.
Charles Howard Rosenfarb, of Randolph, N, J.
Peter Alan Rosenstein, of West Orange, N. J.
Barry Mark Rosenthal, of Edison, N. J.
Gary Elliot Rosenthal, of Beachwood, Ohio
Sandra Suzan Rossie, of Silver Spring, Md.
David Joseph Roth, of Jericho, N. Y.
Thomas John Row, Jr., of Fairfax, Va.
Stephen John Rozzo, of North White Plains, N. Y.
Bruce Mark Rubenstein, of Floral Park, N. Y.
Steven Fredric Rubin, of Plainview, Long Island, N. Y.
Michael J. Ruby, of York, Pa.
Lucille Joyce Evangeline Russell, of Chicago, Ill.
Randall Mark Safier, of King of Prussia, Pa.
Robert Alan Sahl, of Orange, Conn.
Timothy Dean Sahms, of Glenside, Pa.
Riyad Michael Said, of Washington, D. C.
Lynn Samaha, of Armonk, N. Y.
Bruce Howard Saul, of Bethesda, Md.
Carola Friederike Sautter, of Stuttgart, Germany
Karin Lea Sayther, of Paramus, N. J.
Sharon Lynn Sbarsky, of New York, N. Y.
Andrew Scaljon, of Baltimore, Md.
Jane Alison Scarbrough, of Princeton, N. J.
Gary Schattschneider, of Mendham Township, N. J.
Ina Renée Schechter, of Springfield, N. J.
Amy Nan Schectman, of Stamford, Conn.
James Charles Scheller, Jr., of Baltimore, Md.
Norman Michael Schlossberger, of Fair Lawn, N. J.
Martin Emanuel Schlusselberg, of Kings Point, N. Y.
Peter John Schmieding, of Naples, Fla.
Richard Allen Schmitt, of Oradell, N. J.
James Anthony Schoettler, Jr., of Chevy Chase, Md.
Elizabeth Ann Schön S., of Baltimore, Md.
Rachael Ellen Schwartz, of LaVale, Md.
Richard Jeffrey Scott, of Highland Park, N. J.
Clair William Sebring III, of Timonium, Md.
Jackye Lynn Selden, of Holmdel, N. J.
Janice Shack, of Miami, Fla.
Avram Bension Shapiro, of Baltimore, Md.
Ira Mark Shapiro, of Derby, Conn.
Mark Steven Shirley, of Mendoza, Argentina
Jed Mark Shivers, of Storrs, Conn.
Elizabeth Christine Short, of St. Louis, Mo.
Charles Brandford Silvia, Jr., of Salisbury, Md.

Allyn Laurie Simon, of Chicago, Ill.
Richard Stuart Simon, of New Rochelle, N. Y.
George Nicholas Skegas, of Aberdeen, Md.
James Lewis Slack, of Albuquerque, N. M.
Virginia Lee Slingland, of Washington, D. C.
Cameron Ransom Smith, of Scarsdale, N. Y.
Karen Electa Smith, of Baltimore, Md.
Russell Brian Smith, of Durham, N. H.
Sharon Deniese Smith, of Baltimore, Md.
Douglas Shaw Smoot, of Chevy Chase, Md.
Lynn Snyder, of Colchester, Conn.
Robert David Soloff, of Elkins Park, Pa.
Alexander Sorokin, of Flushing, N. Y.
Frank Anthony Spellman, of San Francisco, Calif.
Maria T. Springer, of Fairfax, Va.
Gary Alexander Stahl, of Scarsdale, N. Y.
Bryan Kenneth Stamm, of Stamford, Conn.
Tina Gwen Stanley, of Magnolia, Ark.
Bradley Richard Stark, of Newark, Del.
Marc William Steinberg, of Pittsburgh, Pa.
Henry J. Stern, of Ocean Township, N. J.
Jay Ivan Stern, of Neptune, N. J.
John Alan Stern, of Pittsburgh, Pa.
Susan Beth Sundell, of Rochester, N. Y.
Jason Hugh Sussman, of Baltimore, Md.
Leslie Gayle Sussman, of Rockville, Md.
Charles William Swartley, Jr., of Burnt Hills, N. Y.
Susan Jolie Swerdloff, of Tarzana, Calif.
Steven C. Taitz, of Blue Point, N. Y.
Mark Adams Talamini, of Moorestown, N. J.
Gustava Elizabeth Taler, of Annapolis, Md.
Pamela Anne Talley, of Hauppauge, N. Y.
Helen Irene Tangires, of Baltimore, Md.
Allen Mark Tanner, of Wilmington, Del.
Paula Jane Tarnapol, of New London, Conn.
Janice Lea Taylor, of Alvin, Texas
Robin Elizabeth Susan Taylor, of Bloomington, Ind.
Barbara Laraine Thomas, of Cherry Hill, N. J.
Robert Torop, of New York, N. Y.
Paul Joseph Toscano, of Baltimore, Md.
Alan Gerald Tresser, of Passaic, N. J.
Kathleen Elizabeth Troy, of Pittsburgh, Pa.
Noel B. Tulipan, of Ardsley, N. Y.
Lisa Robin Turgell, of New York, N. Y.
Frances Julia Turisco, of New London, Conn.
William F. Urmey, of Oceanport, N. J.
Ted B. Usdin, of Arlington, Va.
Freny Vaghaiwalla, of Los Angeles, Calif.
James Alden Vette, of Silver Spring, Md.
Stephen Jacob Vezeris, of Freehold, N. J.
Myron Anthony Waclawiw, of Baltimore, Md.
Misako Wagatsuma, of Tokyo, Japan.
Michele Ingre Walters, of Brooklyn, N. Y.
David Harris Warren, of New Orleans, La.
Hal Stuart Wasserman, of Springfield, N. J.
Mary Catherine Waters, of Brooklyn, N. Y.
Robert Keith Wayne, of Ft. Lauderdale, Fla.
James Lewis Adrian Webb, Jr., of Baltimore, Md.
Kenneth Raymond Weber, of Ridgewood, N. J.
George Jay Weiner, of Cincinnati, Ohio
Susan Weiner, of Newton Centre, Mass.
David Allen Weisberg, of Silver Spring, Md.
Eric Harold Weisblatt, of Silver Spring, Md.
Gary David White, of Clifton, N. J.
George Malcolm White, of Columbia, Md.
Judy Anne White, of Baltimore, Md.
Kim DeLayne White, of Woodbridge, Va.
Jonathan David Whitsel, of Dundalk, Md.
Daniel Gerard Wilczek, of McMurray, Pa.
Robert Patrick Wills, of Greeley, Colo.
Gary Evan Windler, of Glen Cove, N. Y.
Robert Mark Winter, of Baltimore, Md.
Ralph Hastings Wood, Jr., of McLean, Va.
Richard Drew Wortzel, of Union, N. J.
John Thomas Wynn, of Montclair, N. J.
Mariko Yamagami, of Los Angeles, Calif.
Samuel Pai-Sun Yang. of Walnut Creek, Calif.
Carl Frederick Yeich, of White Hall, Md.
George Cheng-Chi Yu, of Burlington, Mass.
Christopher Zeman, of Bowie, Md.
Edward Michael Zimmerman, of Silver Spring, Md.
Mark D. Zimmerman, of Warminster, Pa.
Lloyd Zucker, of Westfield, N. J.

## BACHELORS OF ENGINEERING SCIENCE

in the Faculty of Engineering

Michael Glenn Absatz, of Plainview, N. Y.
Daniel Joseph Adler, of Oceanside, N. Y.
Patrick Ernest Barta, of Bryan, Texas
Michael Elliot Bellow, of Rockville Centre, N. Y.
James Randal Brittain, of Timonium, Md.
Gordon Louis Buhle, of Media, Pa.
Roderich Marion Carr, of Clinton, Md.
Rowland Mark Chen, of New Rochelle, N. Y.
Catherine C. Chiu, of Taipei, Taiwan
James Bowen Clark, of Sparks, Md.
Eric Lee Douglass, of Baltimore, Md.
J. David Friedman, of New City, N. Y.
Robert Johnson Gilroy, Jr., of Willingboro, N. J.
Scott Alan Gruber, of Jamaica, N. Y.
Charles Edward Hauck, Jr., of Owings Mills, Md.
Kenneth Michael Hoffman, of Setauket, N. Y.
Eric Douglas Horning, of Mohnton, Pa.
Stuart Tin Fah Huang, of Bethesda, Md.
Edward James Huck, of Alexandria, Va.
Lawrence Michael Kenney, Jr., of Wilmington, Del.

William Theodore Klein, of Staten Island, N. Y.
Peter Koziar, of Fairfield, N. J.
Bruce David Labitt, of Lexington, Mass.
Charles Arthur Lachenbruch, of Los Altos Hills, Calif.
Wendy Cheryl Lamppin, of Timonium, Md.
Gary Stewart Ledley, of Silver Spring, Md.
Jill Lynne Leukhardt, of North Huntingdon, Pa.
Scott Ensign Marks, of Pittsford, N. Y.
Lawrence A. McGowan, of Baltimore, Md.
Anne Virginia Mentz, of Moraga, Calif.
James Kenji Murashige, of Honolulu, Hawaii
Eric Harris Naviasky, of Baltimore, Md.
Richard James Nelson, of Jerome, Idaho
George S. Owens, of Baltimore, Md.
Douglas Mark Riker, of Mountain Lakes, N. J.
Robert James Schultz, of San Lorenzo, Calif.
Joseph John Siemek, of Baltimore, Md.
Ernest Richard Taschenberg, of Baltimore, Md.
Dean Hyder Uhler, of Baltimore, Md.
Steven Christopher Walsh, of Baltimore, Md.
John Long Wheeler, of Baltimore, Md.
Thomas Benton Wheltle, of Baltimore, Md.
Kenneth C. Wolf, Jr., of Baltimore, Md.
Donald Charles Wright, of Baltimore, Md.

## BACHELORS OF SCIENCE

### in The School of Health Services

Irene Evelyn Baill, of Oxon Hill, Maryland. Nursing Education.

Mariclare Barrett, of Clarendon Hills, Illinois, B. A., Michigan State University, 1973. Health Associate.

Sara Jean Benckart, of Washinton, D. C., B. A., Indiana University, 1969. Nursing Education.

Jeanne Ann Borowicz, of Madison, Wisconsin, B. A., University of Wisconsin-Madison, 1975. Nursing Education.

Katherine Sturges Boyle, of Fairfield, Connecticut, B. S., Wheelock College, 1973. Nursing Education.

Dennis Mark Chinoy, of Bradford, Maine, A. B., Brandeis University, 1971. Health Associate.

Ruth Fingerhut Cody, of Baltimore, Maryland, B. S., City College of the City University of New York, 1970. Health Associate.

Dana Beth Cohen, of Massapequa Park, New York. Nursing Education.

Helen Mead Dalzell, of Moundsville, West Virginia, M. S. W., West Virginia University, 1973. Health Associate.

Jennifer Dean Dwyer, of Briarcliff Manor, New York. Health Associate.

Lois June Eldred, of Berkeley, California. Health Associate.

Wynn Harrison Eldredge, of Annapolis, Maryland. Nursing Education.

Stephen Joseph Flynn, of Renton, Washington. Health Associate.

Mary Theresa Forrester, of Cockeysville, Maryland. Nursing Education.

Jeanne LeSar Fralich. of Lancaster, Ohio. Health Associate.

Eileen Patricia Gallagher, of Timonium, Maryland. Nursing Education.

Katherine Denise Garvey, of Baltimore, Maryland. Nursing Education.

Mary Elizabeth Hare, of Saluda, South Carolina. Nursing Education.

Louis Arnold Holtzman, of Los Angeles, California. Health Associate.

Kelly Hsu, of Silver Spring, Maryland. Nursing Education.

Catherine Lee Kelleher, of Seattle, Washington. Health Associate.

Suzanne (Surrey) Kent, of Berkeley, California, B. A., Oberlin College, 1970. Health Associate.

Francis X. Kieliszek, of Teaneck, New Jersey, B. A., Yale University. 1972. Health Associate.

Sandra Snyder Kirckhoff, of Baltimore, Maryland, B. A., North Carolina Wesleyan College, 1973. Nursing Education.

Kathy S. Kline, of Baltimore, Maryland, A. B., Syracuse University, 1975. Health Associate.

Mary Ann Knott, of Baltimore, Maryland. Nursing Education.

Barbra Ann McCune, of Baltimore, Md., M. S. W., University of Maryland, 1974. Health Associate.

Thomas S. Lis, of San Francisco, California. Health Associate.

Virginia Pupillo Luckhardt, of Baltimore, Maryland. Nursing Education.

Diane Christine Lundy, of Wilmington, Delaware, B. A., The Johns Hopkins University, 1976. Health Associate.

Laura Jane Lynch, of Cazenovia, New York, B. A., Colgate University, 1976. Health Associate.

Lorraine Frances Lynch, of West Roxbury, Massachusetts, M. A., University of Michigan, 1972. Nursing Education.

Jeri Marlene Mancini, of Brockport, Pennsylvania, B. A., Chatham College, 1976. Nursing Education.

Mary Carol (Ging) Marconi, of Baltimore, Maryland, B. S., Towson State University, 1976. Health Associate.

Barbra Ann McCune, of Baltimore, Maryland, M. S. W., University of Maryland, 1974. Health Associate.

Barbara Dresner Merliss, of Hackensack, New Jersey. Nursing Education.

John R. Molinaro, of Philadelphia, Pennsylvania, B. S., University of Wisconsin-Madison, 1974. Health Associate.

Pamela Lynn Norton, of Arnold, Maryland, B. A., Western Maryland College, 1973. Nursing Education.

Stephanie Storto Poe, of Baltimore, Maryland, B. A., The Johns Hopkins University, 1976. Nursing Education.

Virginia C. Reath, of Philadelphia, Pennsylvania. Health Associate.

Marie Natalie Reikenis, of Baltimore, Maryland. Nursing Education.

Ellen Mary Ruell, of Burlington, Vermont. Health Associate.

Carol Frances Salak, of Grundy, Virginia, B. A., University of Virginia, 1975. Nursing Education.

Saria Jean Sandlin, of Kensington, Maryland, B. S., University of Maryland, 1976. Nursing Education.

William Raymond Schmidt, of Wilmington, North Carolina, M. P. H., University of North Carolina-Chapel Hill, 1971. Health Associate.

Geoffrey R. Sebastian, of Chicago, Illinois, M. S., University of Illinois-Chicago Circle, 1976. Health Associate.

Freddi I. Segal, of Portland, Oregon, B. A., Reed College, 1976. Health Associate.

Karen S. Shank, of Timonium, Maryland. Nursing Education.

Douglas R. Southard, of Warner, New Hampshire. Health Associate.

Edward Howard Streyle, of Balitmore, Maryland, B. A., St. Meinrad College, 1971. Nursing Education.

Kathleen Ann Tomczyk, of Reading, Pennsylvania, B. S., The Pennsylvania State University, 1973. Health Associate.

Benita Jeanne Walton, of Silver Spring, Maryland. Nursing Education.

Susan Donota Weiss, of Shady Grove, Florida, B. A., The Johns Hopkins University, 1976. Health Associate.

Christopher C. Weldon, of Baltimore, Maryland, B. S., Syracuse University, 1973. Nursing Education.

Pamela Kay Wirth, of Grand Rapids, Michigan. Health Associate.

## BACHELORS OF MUSIC

in the Peabody Conservatory of Music

Harry Robert Apgar, of New Jersey. Music Education.

Kathryn Suzanne Baldwin, of Virginia. Music Education.

Cathy Barbash, of New York, B. A. Harvard University, 1974. Viola.

Philip Bruce Blair, of Maryland. Composition.

Cathy Rae Bond, of Maryland. Voice.

Jeffrey S. Calman, of Alberta, Canada. Piano.

Teresa May Cardoza, of Massachusetts. Violoncello.

Robert Vernon Cocking, of Maryland. Music Education.

Mark Andrew Cook, of Maryland. Music Education.

Phyllis Jane Crossen, of Michigan. Clarinet.

José Miguel Cueto, of Puerto Rico. Violin.

Marc Samuel DiPasquale, of Maryland. Music Education.

Mohammad Yazeed Sulaeman Datuk Djamin, of Jakarta. Composition and Piano.

James Wilbur Eaton, Jr., of Maryland. Viola.

Angela Ruth Edwards, of Florida. Piano.

Steven Patrick Finley, of Nebraska. Flute.

Carlos Alberto Rodríguez Fusté, of Puerto Rico. Violin.

Jed Adie Galant, of California. Piano.

Gni Grossman, of Pennsylvania. Flute.

Marc Jonathan Guy, of Ohio. Horn.

James L. Haga, of Virginia. Percussion.

Janet Louise Haines, of Maryland. Music Education.

Christopher Ware Hall, of Minnesota. Piano.

Robert Edward Hawkins, of New Jersey. Piano.

Barbara A. Herrick, of Connecticut. Piano.

Beverly Anne Hykkonen, of Texas. Flute.

Scott Whitney Johnson, of Maryland. Guitar.

Marvin Earl Jones, of New Jersey. Trombone.

Theodore S. Jones, of Maryland. Trumpet.

Sharon Dodd Kerr, of Virginia. Violin.

Amelia E. Killian, of Pennsylvania. Piano.

Katharine Knight, of Maryland. Violoncello.

Sally Ghitis Kopf, of California. Flute.

Laryssa Maria Krupa, of New Jersey. Piano.

Stephen D. Leinheiser, of Delaware. Clarinet.

Catherine J. Lenny, of Ohio. Music Education.

Tobi-Ann Luthringer, of New York. Flute.

Anne Mansvetov, of Maryland. Piano.

Catherine Farnham Marion, of Virginia. Voice.

Gary Everett Marion, of Maryland. Clarinet.

Susan Penelope McGraw, of Maryland. Music Education and Piano.

Stephen A. Morrison, of Ohio. Guitar.

Dolores M. Munoz, of New York. Clarinet.

William Petty, of Virginia. Flute.

Reginald S. Pindell, of Maryland. Voice.

Aaron Louis Porter, of Washington, D. C. Horn.

Mitchell Allen Pressman, of Maryland. Double Bass.

Carol Jean Prochazka, of Maryland. Piano.

Mary Veronica Ranke, of Massachusetts. Piano.

Lawrence Rich, of Maryland. Guitar.

John Kittil Roeland, of Virginia. Percussion.
Leslie E. Starr, of Maryland, B. A. St. John's College, 1972. Music Education.
Christian Michael Steinmetz, of Virginia. Music Education.
Mary Aileen Steyer, of West Virginia. Piano.
John Alexander Stover, of California. Guitar.
Kevin R. Taylor, of Pennsylvania. Guitar.
Nancy Ward Taylor, of Maryland. Voice.
Joshua Tsai, of Australia. Piano.
Maria Del Carmen Gil Venzal, of Puerto Rico. Piano.
Jari Augusto Villanueva, of Maryland. Music Education.
Shuko Watanabe, of Japan. Piano.
Carolyn Ann Williams, of Ohio. Music Education.
Barton Raymond Woomert, of Pennsylvania. Trumpet.
Nina Elizabeth Woomert, of Pennsylvania. Organ.
Paula Jean Wright, of Pennsylvania. Voice.

## ASSOCIATES OF ARTS
### in The Evening College

Claudia Beth Woodworth Barlow, of Kingsville, Md.

## ASSOCIATES OF SCIENCE
### in The Evening College

Ronald Castain, of Baltimore, Md.
Edward Paul Fine, of Baltimore, Md.
Diane Elizabeth Jensen Glover, of Baltimore, Md.
Sandra Lee Jaksina, of Allentown, Pa.
Dominic Joseph Kreczmer, of Baltimore, Md.
Barry Wayne Linton, of Westminster, Md.
Barbara Joanne Raley Lowy, of Reisterstown, Md.
Albert Arthur Roberts, Jr., of Baltimore, Md.
Mary Louise Williams, of Baltimore, Md.
Michael M. Zarubaiko, of Baltimore, Md.

## BACHELORS OF SCIENCE
### in The Evening College

Pamela June Anderson, of Laurel, Md.
Arveta Nick Bains, of Baltimore, Md.
David Bruce Baker, of Baltimore, Md.
Harry Lee Ballard, Jr., of Aberdeen, Md.
Brian N. Barrick, of Baltimore, Md.
Betty Jane Beach, of Baltimore, Md.
Diane Demarest Becker, of Ruxton, Md.
Ruth Frances Berger, of Baltimore, Md.
Roz-Lynn Blitzer, of Baltimore, Md.
Jacolyn Sue Miller Blunt, of Baltimore, Md.
Norman Lee Bradshaw, of Baltimore, Md.
Anne Clarke Bremner, of Towson, Md.
Jane Ann Carver, of Baltimore, Md.
Michele Vance Conard, of Reisterstown, Md.
Robert Mark Connelly, of Baltimore, Md.
M. Elizabeth Corrigan, of Marriottsville, Md.
Michael Edward Daneker, of Baltimore, Md.
William Eugene DeLashmit, of Plymouth, N. H.
Patrick Michael Dolan, of Joppa, Md.
Mildred Struzinski Dubicki, of Baltimore, Md.
Edwin Taylor Duke, of Arnold, Md.
Ralph Leonard Felter, of Lutherville, Md.
Dominic Paul Fino, Jr., of Baltimore, Md.
Audrey S. Fisher, of Baltimore, Md.
Charles Joseph Franklin, Jr., of Baltimore, Md.
Ralph Albert Frederick, Jr., of Fallston, Md.
David Samuel Frutko, of Baltimore, Md.
Edward Lytton Garey, of Linthicum, Md.
Norman W. Gerhardt, of Baltimore, Md.
Michael Timothy Godack, of Baltimore, Md.
Henry William Gordes, Jr., of Baltimore, Md.
Ralph J. Hackley, of Baltimore, Md.
James David Hemler, Jr., of Taneytown, Md.
Thomas Charles Hess, of Baltimore, Md.
Charles Vernon Hirsch, Jr., of Baltimore, Md.
William Holley, of Catonsville, Md.
Norman Leroy Houck, of Baltimore, Md.
Sarah Stoll Howell, of Port Deposit, Md.
Vernon Henry Huebschman, of Baltimore, Md.
Allan Paul Jensen, of Baltimore, Md.
Kathleen Janette Jones, of Randallstown, Md.
Eileen Frances Kane, of Baltimore, Md.

Sharon Masley Karsk, of Columbia, Md.
Michael Jay Katz, of Monsey, N. Y.
Doris H. Kiel, of Phoenix, Md.
Eric Henry Kindt, of Ellicott City, Md., A. S. The Johns Hopkins University, 1976.
Donna Susan Pivec Koch, of Sykesville, Md., A. A. The Johns Hopkins University, 1975.
Kenneth John Kocun, of Towson, Md.
Karen Ann Laudenslayer, of Baltimore, Md.
Zev Lewinson, of Baltimore, Md.
Kathleen Theresa Linsenmeyer, of Baltimore, Md.
Bonnie Mary Tyler Low, of Baltimore, Md.
James Harold Magee, Jr., of Baltimore, Md., A. A. The Johns Hopkins University, 1974.
Joseph Blaine McGee, of Baltimore, Md.
Michael Edward Moynahan, of Baltimore, Md.
Carol Nizzardini, of Baltimore, Md.
Paul N. Orth, of Baltimore, Md.
Karen Lynn Pedersen, of Lutherville, Md.
William Franklin Prochownik, Jr., of Baltimore, Md.
Thomas Lee Rawlings, of Baltimore, Md.
John Walter Reames, of Baltimore, Md.
Mary V. Reedy, of Baltimore, Md.
Herbert Retsky, of Baltimore, Md.
Ilse Helmke Richards, of Baltimore, Md.
Yves Alain Robert Rivelois, of Carantec, Finistère, France.
Barbara Ann Baroch Rogers, of Baltimore, Md.
Royce George Rokos, of Cockeysville, Md.
Steward Russell, of White Hall, Md.
Peter Marseilles Saxman, of York, Pa.
Joseph Menachem Scheller, of Baltimore, Md.
Claire R. Shucosky, of Timonium, Md.
Solomon H. Singer, of Baltimore, Md.
Marjorie Anne Rupp Sinton, of Baltimore, Md.
Alexander Leon Slonin, Jr., of Stevensville, Md.
Henry Leavy Sohl, Jr., of Linthicum, Md.
Mary Rachael Stevens, of Crownsville, Md.
Samuel Isaac Sutton, of Baltimore, Md.
Vincent Michael Toskes, Jr., of Baltimore, Md.
Michael Temple Towles, of Baltimore, Md.
Frances Anna Fina Trader, of Baltimore, Md .
Robert Michael Tutin, of Baltimore, Md.
Vernon William Weber, Jr., of Sykesville, Md.
Evan Willner, of Pittsburgh, Pa., B. Th. Ner. Israel Rabbinical College, 1977.
Roberta Margaret Wirth, of Baltimore, Md.
Elisabeth Stein Yager, of Baltimore, Md.
Rose M. Anderson Young, of Baltimore, Md.
Claire Ann Zinkham, of Ruxton, Md.
Howard Ira Zlotowitz, of Randallstown, Md.
Robert Jay Zoerman, Jr., of Edgewood, Md.

## BACHELORS OF SCIENCE IN ENGINEERING

### in The Evening College

Gary William Albrent, of Baltimore, Md., A. S. The Johns Hopkins University, 1976.
Clinton Louis Anuszewski, of Baltimore, Md., A. S. The Johns Hopkins University, 1976.
Ronald Walter Armacost, of Baltimore, Md.
Rahim Banihashemi, of Cockeysville, Md.
Walter James Barham, of Baltimore, Md.
Joseph Erle Baumgartner III, of Baltimore, Md., A. S. The Johns Hopkins University, 1976.
Robert Lewis Behnken, Sr., of Baltimore, Md.
Henry Allen Bennett, of Baltimore, Md.
George Stephen Biemer, of Baltimore, Md.
Charles Thomas Bogdanowicz, of Baltimore, Md.
Jose deAlmeida Brito, of Baltimore, Md.
Richard Russell Brittingham, of Baltimore, Md.
Stephen Gregory Burg, of Hallam, Pa.
Kenneth Ray Carter, of Baltimore, Md.
Dan Richard Clark, of Baltimore, Md.
John William Darr, Jr., of Baltimore, Md., A.S. The Johns Hopkins University, 1976.
Martin Luther Doll, Jr., of Hanover, Pa.
Richard Hovey Gamble, of Baltimore, Md.
Ian Robert Gilchrist, of Timonium, Md.
Stanley Joseph Glinka, of Glen Burnie, Md., A. S. The Johns Hopkins University, 1972.
Robert Francis Hamilton, of Owings Mills, Md., A. S. The Johns Hopkins University, 1976.
Donnell LeRoy Hanson, of Baltimore, Md.
Csaba Balint Hanyi, of Baltimore, Md.
Michael Willis Harper, of Baltimore, Md.
Noorul Hasan, of Baltimore, Md.
Augustus Eugene Johnson, of Baltimore, Md.
Richard Temple Johnson, of Baltimore, Md., A. S. The Johns Hopkins University, 1976.
Alfred Herbert Judge, of Timonium, Md.
Trevillian Chineta Kennedy, of Columbia, Md.
Donald Albert King, of Pasadena, Md.
Mitchell Lee Knox, of Darlington, Md.
Paul David Krause, Jr., of Baltimore, Md., A. S. The Johns Hopkins University, 1976.
Kenneth Francis Kreiner, of Baltimore, Md.
Denis Joseph Lamdin, of Glen Burnie, Md.
Arthur Edward Leonard, of Baltimore, Md.
Robert Harry Mank, of Bel Air, Md.
Albert Raymond McCleary, of Phoenix, Md.
Keith Phillip Mitchell, of Baltimore, Md.
Francis Lynn Morris, of Baltimore, Md.
Edward Eugene Mosley, of Bel Air, Md.
Richard Louis Neat, of Millersville, Md.
James Louis Piedrafita, of Glen Burnie, Md.

Edward Byron Porter, of Gambrills, Md.
Anthony Michael Pupek, of Baltimore, Md.
Asim Kumar Ray, of Calcutta, India.
Keith Lane Richardson, of Owings Mills, Md., B. S. E. Johns Hopkins University, 1973.
Albert Russell Richburg II, of Arnold, Md., A. S. The Johns Hopkins University, 1975.
Richard Allan Schrenker, of Baltimore, Md.
Thomas Jacob Shafer, Jr., of Baltimore, Md.
Gary Howard Sniegowski, of Joppa, Md.
Donald Ray Stancavitch, of Baltimore, Md., A. S. The Johns Hopkins University, 1976.
Eugene Wesley Stump, of Baltimore, Md.
Robert Henry Tegtmeier, of Phoenix, Md., A. S. The Johns Hopkins University, 1977.
James Lawrence Thacker, of Bel Air, Md.
Thomas Edward Thornton, of Baltimore, Md.
Preston Lawrence Tillman, Jr., of Glen Burnie, Md.
Gilbert Wallace Waters, Jr., of Baltimore, Md.
John Phillip Weisner, of Baltimore, Md.
Donald Lawrence Willis, of Baltimore, Md.
Robert Edmund L. Wolff III, of Baltimore, Md.

## MASTERS OF SCIENCE
### in The Evening College

Rita Pertman Abel, of Owings Mills, Md., B. S. Towson State College, 1966. Education.

Allan Howard Acton, of Baltimore, Md., B. A. Wabash College, 1972. Urban Planning.

John Dana Adams, of Columbia, Md., B. S. Worcester Polytechnic Institute, 1974. Electrical Engineering.

Linda Blann Adams, of Baltimore, Md., B. S. Towson State College, 1973. Education.

James John Affayroux, Jr., of Randallstown, Md., B. S. Towson State College, 1972. Education.

Fazle Ali, of Ellicott City, Md., M. Sc. Brown University, 1959. Environmental Engineering.

Linda Martha Allen, of Baltimore, Md., B. A. Towson State College, 1971. Education.

Robert Adrian Alworth, of Baltimore, Md., B. A. The Johns Hopkins University, 1978. Education.

Thomas Anthony Anastasio, of Columbia, Md., B. S. St. Peter's College, 1958; B. S. E. The Johns Hopkins University, 1968. Numerical Science.

Elizabeth Reynolds Edrington Andryszak, of Baltimore, Md., B. S. Frostburg State College, 1973. Education.

William Thomas Angel, of Gaithersburg, Md., B. S. University of Rochester, 1970. Applied Physics.

Jacalyn L. Apgar, of Baltimore, Md., B. A. Towson State College, 1972. Education.

Lynn Marie Appeltofft, of Baltimore, Md., B. A. Frostburg State College, 1974. Education.

Everal Lynne Arnold, of Baltimore, Md., B. A. Salisbury State College, 1973. Education.

Suresh Kumar Arora, of Gaithersburg, Md., B. S. Delhi University, 1970. Computer Science.

Jacqueline Cynthia Arrington, of Baltimore, Md., B. S. Coppin State College, 1970. Education.

Jacquelyn Lee Askew, of Cockeysville, Md., B. S. Towson State College, 1968; M. A., 1973. Education.

Joseph Paul Atkas, Jr., of Severn, Md., B. S. E. E. University of Connecticut, 1973. Electrical Engineering.

Eileen Marie Atkins, of Greenbelt, Md., B. S. University of Maryland, 1971. Education.

F. Kay Jones Augustine, of Laurel, Md., B. A. University of Maryland, 1974. Education.

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John Frank Metter, of Baltimore, Md., M. S. University of Illinois, 1974. Computer Science.

Marian Louise Milbourne, of Baltimore, Md. B. S. Coppin State College, 1971. Education.

Carole M. Miller, of Baltimore, Md. B. A. University of Maryland, 1975. Education.

James Douglas Miller, of Baltimore, Md., B. S. University of Maryland, 1972. Education.

Lucy Harriete Jones Miller, of Baltimore, Md., B. S. Coppin State College, 1970. Education.

Shirley Louise Mills, of Annapolis, Md. B. S. Towson State College, 1974. Education.

Glenn Leland Milner, Jr., of Ellicott City, Md., B. S. Rensselaer Polytechnic Institute, 1971. Computer Science.

David Alan Minnis, of Columbia, Md., B. S. University of Maryland, 1972. Electrical Engineering.

Harry Robert Mock, Jr., of Randallstown, Md., B. S. Pennsylvania State University, 1969. Education.

Sue Ann Moessinger, of Hyndman, Pa., B. S. Towson State College, 1974. Education.

Evelyn M. Molner, of Lutherville, Md., B. S. Towson State College, 1973. Education.

Bruce Chester Moore, of Columbia, Md., B. E. E. Rensselaer Polytechnic Institute, 1965. Electrical Engineering.

Adele Louise Morales, of Baltimore, Md., B. A. Marshall University, 1969, M. Ed. The Johns Hopkins University, 1974. Education.

Anthony Mordente, of Bel Air, Md., B. S. M. E. Polytechnic Institute of Brooklyn, 1973. Computer Science.

Monterey Rebecca Morell, of Baltimore, Md., B. S. Towson State College, 1974. Education.

Gregg F. Morgan, of Glen Burnie, Md., B. S. University of Maryland, 1974. Computer Science.

Madelyn Carol Krzysko Morgan, of Joppa, Md., B. A. St. Francis College, 1964. Education.

James Randall Morris, of Cleveland, Ohio, B. A. The Johns Hopkins University, 1974. Numerical Science.

Rochelle Berger Morrison, of Silver Spring, Md., B. A. Goucher College, 1960. Computer Science.

Joan Ann Mory, of Baltimore, Md., B. A. University of Maryland, 1975. Education.

Jacqueline Mercedes Golden Motton, of Randallstown, Md., B. A. Springfield College, 1970. Education.

Jane Elda Muir, of Baltimore, Md., B. N. McGill University, 1975. Education.

Charles Muller III, of Linthicum, Md., B. S. University of Maryland, 1973. Computer Science.

Glenn Robert Munch, of Towson, Md., B. S. Ohio State University, 1971. Education.

Lillie Nelson Myers, of Baltimore, Md., M. Ed. Loyola College, 1970. Education.

Stoddard Daniels Nelson, Jr., of Potomac, Md., B. A. Wesleyan University, 1964. Computer Science.

Robb Wellington Newman, of Silver Spring, Md., B. S. Cornell University, 1955; M. S., 1966. Space Technology.

James Thomas Noonan, of Baltimore, Md., B. S. University of Maryland, 1972. Urban Planning.

Eskandar Alex Noorani, of Baltimore, Md., B. E. S. The Johns Hopkins University, 1972. Environmental Engineering.

Martha Mary Nowak, of Greenbelt, Md., B. S. Pennsylvania State University, 1972. Education.

Barbara Kay O'Brien, of Baltimore, Md., B. S. New York University, 1971. Urban Planning.

Gerald Patrick O'Conor, of Columbia, Md., B.Arch. Texas Tech University, 1971. Computer Science.

Craig Roy Offhaus, of Glen Burnie, Md., B. S. Concordia Teachers College, 1969. Education.

Judith Potestivo Ogin, of Baltimore, Md., B. A. Wilkes College, 1971. Education.

Susan Adele Osborn, of Bel Air, Md., B. S. Towson State College, 1973. Education.

Marcella Florence Osgood, of Newark, Del., B. S. University of Delaware, 1973. Education.

Douglas Richard Ousborne, of Simpsonsville, Md., B. S. University of Maryland, 1974. Electrical Engineering.

William Allen Owings, of Reisterstown, Md., B. A. Towson State College, 1973. Education.

Charles Hyland Page III, of Baltimore, Md., B. S. Pennsylvania State University, 1966; B. S. E. The Johns Hopkins University, 1970. Environmental Engineering.

Faye Pappalardo, of Cockeysville, Md., B. S. Ed. Mount St. Mary's College, 1966. Education.

Hubert Edward Parker, Jr., of Baltimore, Md., B. S. University of Baltimore, 1966. Education.

Helen Gaines Patterson, of Bel Air, Md., B. S. Towson State College, 1972. Education.

Deborah Ann Paul, of Baltimore, Md., B. A. Towson State College, 1972. Education.

Marlene Rona Paul, of Baltimore, Md., B. A. University of Maryland, 1972; M. S. The Johns Hopkins University, 1975. Education.

Albert Raney Erron Payne, of Baltimore, Md., B. S. Towson State College, 1973. Education.

Darlene Agnes Peacock, of Baltimore, Md., B. S. Towson State College, 1972. Education.

Martha Dunlop Petrovich, of Columbia, Md., B. S. California State College, 1969; M. S. The Johns Hopkins University, 1974. Education.

Carol Ann Ziehler Pfeiffer, of Baltimore, Md., B. S. University of Maryland, 1974. Education.

James Franklin Pitts, of Reisterstown, Md., B. E. S. The Johns Hopkins University, 1973. Electrical Engineering.

Leo Andre Plourde, of Temple Hills, Md., B. A. Catholic University of America, 1971. Education.

Wynonie Plummer, of Reston, Va., B. S. E. E. Howard University, 1970. Electrical Engineering.

Joan Paymer Pokroy, of Baltimore, Md., B. A. University of Maryland, 1974. Education.

Patricia Bea Pompilo, of Randallstown, Md., B. A. Antioch College, 1975. Education.

Stephanie Bunda Possumato, of Harpers Ferry, W. Va., B.S. Millersville State College, 1974. Education.

Doris Christine Potter, of Baltimore, Md., B. S. Towson State College, 1974. Education.

James Edgar Price, Jr., of Laurel, Md., B. S. Case Institute of Technology, 1974; M. S. The Johns Hopkins University, 1976. Computer Science.

Marilyn Foote Price, of Baltimore, Md., B. A. Morgan State College, 1972. Education.

Susanne Louise Prigge, of Glen Burnie, Md., B. A. State University of New York, 1968. Education.

Mary Burke Puckett, of York, Pa., B. A. College of Mount St. Vincent, 1950. Education.

Dorothy Stirn Raff, of Bel Air, Md., B. A. University of Maryland, 1967. Education.

Seshadri Raghavan, of Baltimore, Md., B. A. Arch. Delhi School of Architecture, 1960. Urban Planning.

Steven L. Rands, of Manassas, Va., B. S. Brigham Young University, 1970. Space Technology.

Margaret Gonzales Redden, of Silver Spring, Md., B. S. University of Maryland, 1969. Education.

Michael Thomas Reeb, of Baltimore, Md., B. A. University of Dayton, 1974. Education.

Christopher Joseph Reed, of Baltimore, Md., B. A. The Johns Hopins University, 1975. Computer Science.

Nadine Reicher, of Baltimore, Md., B. A. Goucher College, 1976. Education.

Paul David Reindollar, of Laurel, Md., B. A. Catawba College, 1974. Computer Science.

Carol Joyce Remz, of Bronx, N. Y., B. S. State University of New York, Buffalo, 1974. Education.

Irene Francis Reville, of Baltimore, Md., B. A. Antioch College, 1973. Education.

Wynonia Verenia Stewart Rhock, of Baltimore, Md., B. S. Coppin State College, 1962. Education.

Mary Louise Ricciuti, of Baltimore, Md., B. S. Towson State College, 1974. Education.

Donald Lee Riley, of Glen Burnie, Md., B. S. Frostburg State College, 1969. Education.

Patricia Ford Ritterhoff, of Baltimore, Md., B. S. University of Maryland, 1951. Education.

Henry Norman Robey, Jr., of Baltimore, Md., B. E. S. The Johns Hopkins University, 1972. Electrical Engineering.

Donna D. Rochin, of Cockeysville, Md., B. S. Towson State College, 1968. Education.

Darla Heckner Rockman, of Glen Arm, Md., B. S. Towson State College, 1963. Education.

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Doris Elaine Sauble, of Pasadena, Md., B. S. University of Maryland, 1971. Education.

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Edward Loman Sievers, Jr., of Severna Park, Md., B. S. E. E. Pennsylvania State University, 1967. Electrical Engineering.

John Charles Simon, Jr., of Baltimore, Md., B. A. University of Maryland, 1967; M. L. A. The Johns Hopkins University, 1972; M. Ed., 1974; C. A. S., 1975. Urban Planning.

John Henry Sinclair, of Baltimore, Md., B. S. Loyola College, 1970; M. S. The Johns Hopkins University, 1973; M. S. 1975. Computer Science.

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Paul Sherrill Smith, of Columbia, Md., B. S. E. E. Iowa State College, 1973. Electrical Engineering.

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David Andrew Snyder, of Worthington Valley, Md., B. S. E. The Johns Hopkins University, 1974; M. S., 1976. Computer Science.

Theresa Ursula Solmssen, of Washington, D. C., B. A. Oberlin College, 1973. Education.

Ronald Norton Spalding, of Baltimore, Md., B. S. Towson State College, 1973. Urban Planning.

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Virgil Alexander Spornick, of Baltimore, Md., B. A. Indiana University, 1956. Computer Science.

Patrick Henry Stakem, of Midland, Md., B. S. E. E. Carnegie-Mellon University, 1971; M. S. The Johns Hopkins University, 1977. Computer Science.

Sylvia Beverly Stanford, of Columbia, Md., B. S. Spelman College, 1956. Education.

Lawrence Walter Stetz, of Glen Burnie, Md., B. S. E. The Johns Hopkins University, 1969. Electrical Engineering.

Priscilla Lynn Stevens, of Baltimore, Md., A. A. Catonsville Community College, 1971; B. S. Towson State University, 1973. Education.

Angela Marie Stevenson, of Baltimore, Md., B. A. College of Notre Dame of Maryland, 1973. Education.

Catherine Mathews Stevenson, of Baltimore, Md., B. S. Radford College, 1971. Education.

Darlajean Bartley Stewart, of Catonsville, Md., B. S. St. Bonaventure University, 1972; M. A. State University of New York, Fredonia, 1973. Numerical Science.

Helen Lewis Stewart, of Forest Hill, Md., B. S. Towson State College, 1974. Education.

Jane Elizabeth Stime, of Aberdeen, Md., B. S. Towson State College, 1975. Education.

Leslie Levin Storms, of Columbia, Md., B. A. Goucher College, 1965. Education.

Nanette Elizabeth Powell Strauss, of Baltimore, Md., B. S. University of Maryland, 1975. Education.

Michael Lee Strawbridge, of Silver Spring, Md., B. A. West Virginia University, 1975. Numerical Science.

Beth Ann Stultz, of Sykesville, Md., B. A. George Washington University, 1973. Education.

Margaret Willis Summerville, of Baltimore, Md., B. A. Storer College, 1954. Education.

Patricia Maureen Sweeney, of Greenbelt, Md., B. S. University of Maryland, 1974. Education.

Margaret Julia Hartley Sydnor, of Chestertown, Md., B. A. National University of Ireland, 1967; M. Ed. Loyola College, 1972. Education.

Patricia Burse Taiwo, of Baltimore, Md., B. S. Coppin State College, 1971. Education.

Ling-Ling Tao, of Potomac, Md., B. S. Soochow University, Taiwan, 1972. Computer Science.

Adrienne Eloise Taylor, of Baltimore, Md., B. S. Bowie State College, 1974. Education.

Devoy Louise Taylor, of Baltimore, Md., B. S. Morgan State College, 1971. Education.

Mary Ruan Smith Taylor, of Baltimore, Md., B. A. Seton Hill College, 1948. Education.

Thomas Guy Taylor III, of Baltimore, Md., B. S. Towson State College, 1969. Education.

Hunter Bennett Teates, of Columbia, Md., B. S. Virginia Polytechnic Institute, 1965; M. E. A. George Washington University, 1973. Computer Science.

Beth Allison Terranova, of Wyckoff, N. J., B. A. The Johns Hopkins University, 1977. Education.

Thomas James Terry, Jr., of Silver Spring, Md., B. S. United States Naval Academy, 1960; M. S. The Johns Hopkins University, 1976. Computer Science.

David Laird Thayer, of Clarksville, Md., B. S. Pennsylvania State University, 1973. Space Technology.

Rosemary Jane Scalzi Thayer, of Ridgely, Md., B. A. Heidelberg College, 1967. Education.

Robert Johnson Thien, of Ellicott City, Md., B. S. University of Kansas, 1957; M. S. George Washington University, 1973. Computer Science.

Stephanie Lee R. Thompson, of Woodbridge, Va., B. A. Kansas Newman College, 1974. Education.

Sylvia Johnson Thornton, of Baltimore, Md., B. S. Coppin State College, 1974. Education.

Reva Ann Lilly Tiedeman, of Baltimore, Md., B. S. University of Maryland, 1973. Education.

Norma Sheila Tucker, of Baltimore, Md., B. S. The Johns Hopkins University, 1974. Education.

Dolores Walker Turner, of Baltimore, Md., M. A. University of Alabama, 1966. Education.

Jacqueline Steinke Tyler, of Annapolis, Md., B. A. William Patterson State College, 1974. Education.

Mary Umphery, of Baltimore, Md., B. S. Coppin State College, 1972. Education.

Phyllis Hicks Utterback, of Simpsonville, Md., B. S. Gettysburg College, 1958. Education.

Farahnaz F. Vaghefi, of Baltimore, Md., B. S. Pahlavi University, Iran, 1976. Education.

Ronald O. Vatalaro, of Columbia, Md., B. S. University of Akron, 1971. Applied Physics.

Edwin Timothy Vaughan, of Columbia, Md., B. A. University of Iowa, 1965. Computer Science.

Janet Keefe Vitalis, of Alexandria, Va., B. S. The Johns Hopkins University, 1977. Education.

Ronit Gunst Voight, of Baltimore, Md., B. S. City College of New York, 1975. Education.

Carole Ann Wagner, of Baltimore, Md., B. S. Towson State College, 1973. Education.

Rebecca Anne Wagner, of Baltimore, Md., B. S. Towson State College, 1975. Education.

Caroline Cook Wahle, of Baltimore, Md., B. A. University of California, 1974. Education.

Ruth D. Walker, of Lutherville, Md., B. A. Wells College, 1973. Education.

Hilda Diana Barrett Wallace, of Columbia, Md., B. A. New York State Teachers College, 1954. Education.

Joan Hoenow Walter, of Bel Air, Md., B. S. St. Lawrence University, 1969. Numerical Science.

Gary Proctor Warfield, of Bel Air, Md., B. S. Towson State College, 1973. Education.

Mary Rex Warfield, of Baltimore, Md., B. S. N. Hood College, 1956. Education.

Rona Sue Rosen Warner, of Annapolis, Md., B. A. University of Maryland, 1970. Education.

Joanne Rose Warres, of Baltimore, Md., B. A. Bryn Mawr College, 1971. Education.

Phyllis Blanche Watkins, of Glen Burnie, Md., B. S. Coppin State College, 1973. Urban Planning.

Benjamin Frederick Weigand, of Baltimore, Md., B. E. E. Georgia Institute of Technology, 1973. Electrical Engineering.

Deborah Reed Weihs, of Cockeysville, Md., B. A. College of Notre Dame of Maryland, 1972. Education.

William Harry Wells, of Randallstown, Md., B. A. University of Maryland, 1974. Environmental Engineering.

George Alvin Werner, of Olney, Md., B. S. The Johns Hopkins University, 1975. Computer Science.

Judith Ann White, of Arnold, Md., B. A. College of Notre Dame of Maryland, 1968. Education.

Cynthia Byers Hoffman Whittle, of Philadelphia, Pa., B. S. University of Delaware, 1973. Education.

Rosemary Louise Shearer Wieder, of Ellicott City, Md., B. A. Goucher College, 1975. Computer Science.

Denise R. Wikman, of Annapolis, Md., B. A. Cedar Crest College, 1974. Education.

Charles Edward Williams, of Beltsville, Md., B. S. Morehouse College, 1965; M. S. The Johns Hopkins University, 1970. Computer Science.

Linda Marie Williams, of Forest Hill, Md., B. S. Bloomsburg State College, 1973. Education.

Sedonia Evelyn Brown Williamson, of Baltimore, Md., B. A. Morgan State College, 1965. Education.

Helen Joyce Wilson, of Baltimore, Md., B. S. Towson State College, 1973. Education.

Sarah Carey Jennings Winters, of Baltimore, Md., B. A. Carnegie-Mellon University, 1969. Education.

Janet Elizabeth Peterson Woods, of Cockeysville, Md., B. S. Towson State College, 1972. Education.

Sally Lisabeth Barnes Woodward, of Sykesville, Md., B. S. University of Maryland, 1972. Education.

Errol Terry Yankelove, of Pikesville, Md., B. A. University of Maryland, 1965. Education.

Iris P. Yospa, of Baltimore, Md., B. S. University of Maryland, 1974. Education.

Sandra Pach Zebal, of Westminster, Md., B. A. Stanford University, 1967. Education.

Leonard Hamilton Zeller, of Linthicum, Md., M. Div. St. Mary's Seminary, 1973. Education.

Cindy Odlen Zonies, of Baltimore, Md., B. A. University of Maryland, 1974. Education.

John Henry Zouck, of Glyndon, Md., B. A. Kenyon College, 1964. Computer Science.

## MASTERS OF EDUCATION

### in The Evening College

Lea Wartzman Alperstein, of Columbia, Md., B. A. University of Maryland, 1972.

Kathleen Feldman Anderson, of Ellicott City, Md., B. S. University of Maryland, 1972.

Barbara Ann Arnett, of Edgewood, Md., B. S. Towson State College, 1973.

Edward Barry Bartkowiak, F. S. C., of Towson, Md., B. A. LaSalle College, 1971.

Eric Stephen Bergofsky, of Exeter, N. H., B. E. S. The Johns Hopkins University, 1972.

Frances Ruth Berman, of Baltimore, Md., B. A. State University of New York, 1972.

Phillis Dian Stanley Betzer, of Laurel, Md., B. S. University of Delaware, 1961.

Harriet Colleen Lewis Blackwell, of Baltimore, Md., B. S. Morgan State College, 1971.

Phyllis Lavy Blankman, of Baltimore, Md., B. S. Towson State College, 1973.

Susan Heldrich Borges, of Baltimore, Md., B. A. Simmons College, 1974.

Cathy Elaine Vizza Borm, of Carol Stream, Ill., B.S. Lock Haven State College, 1970.

William Edward Buchanan, of Columbia, Md., M. A. The Johns Hopkins University, 1951.

Debra Lynn Kifer Burdette, of Elkridge, Md., B. S. University of Maryland, 1974.

Jane Hamlin Byers, of Baltimore, Md., B. A. Michigan State College, 1956.

Billy Callas, of Columbia, Md., B. G. S. Rollins College, 1971.

Virgina Tyler Campbell, of Baltimore, Md., B. A. Williams College, 1975.

Richard George Chilipko, of Glen Burnie, Md., B. S. University of Scranton, 1973.

John Stewart Clatterbaugh, Jr., of Hagerstown, Md., B. S. Virginia Polytechnic Institute, 1960.

Ione Rannells Clay, of Columbia, Md., B. A. Shepherd College, 1951.

Marjorie Bearman Cleaver, of Baltimore, Md., B. S. Frostburg State College, 1969.

Herbert Stanley Cromwell, Jr., of Baltimore, Md., B. A. Mount St. Mary's College, 1971.

Rebecca Davis, of Baltimore, Md., B. A. Goucher College, 1972.

Phyllis Inez Delaney, of Baltimore, Md., B. S. Coppin State College, 1955.

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Maria Rose DiMarco, of Baltimore, Md., B. A. Towson State College, 1974.

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Minerva Colleen Eaton, of Baltimore, Md., B. S. Morgan State College, 1973.

Patsy Mabe Eavers, of Baltimore, Md., University of Maryland, 1973.

Claire Popper Femiano, of Columbia, Md., B. A. Queens College, 1972.

Diane Devena Elefante Ferary, of Columbia, Md., B. S. Indiana University of Pennsylvania, 1963.

Linda Reed Fields, of Baltimore, Md., B. S. Towson State State College, 1975.

Janice Alaine Finley, of Chestertown, Md., B. A. Washington College, 1974.

Margaret Chase Flamer, of Glen Burnie, Md., B. S. Bowie State College, 1971.

Lois Fox, of Randallstown, Md., B. S. University of Maryland, 1973.

Phyllis A. Valone French, of Bel Air, Md., B. A. Edinboro State College, 1972.

James Arthur Gayhardt, of Baltimore, Md., B. A. Towson State College, 1975.

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Roberta Lessans Goldman, of Reisterstown, Md., B. A. Towson State College, 1972.

Robert Howard Goldsmith, of Leonardtown, Md., B. S. Loyola College, 1961; Ph. D. University of Maryland, 1964.

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Ramona Lynn Roberts Green, of Baltimore, Md., B. S. Coppin State College, 1972.

Vincent John Hardt, of Baltimore, Md., B. A. Augustana College, 1972.

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Hortense Hill Henry, of Baltimore, Md., B.S. Coppin State College, 1968.

Wilma Coralou Mason Hilliard, of Baltimore, Md., B. A. Carson-Newman College, 1945.

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Donald Ambrose Killgallon, of Baltimore, Md., M. A. University of Maryland, 1966; M. L. A. The Johns Hopkins University, 1970.

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Ocola Dorothy Lewis, of Laurel, Md., B. S. Morgan State College, 1973.

Marjorie Anne Pelton Lewis, of Columbia, Md., B. A. University of Maryland, 1973.

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Gail Porter Long, of Baltimore, Md., M. A. Ohio University, 1974.

Barbara Saunders Lowe, of Columbia, Md., B. A. Marshall College, 1963.

William Mark Lynch, of Severna Park, Md., B. A. West Virginia University, 1972.

Michele Lisa Markson, of Annapolis, Md., B. S. Syracuse University, 1974.

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Janet Hayden Miller, of Silver Spring, Md., B. S. University of Maryland, 1972.

Lee Rascovar Mintz, of Baltimore, Md., B. S. University of Baltimore, 1968.

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Angela Karen Nunnelly, of Westminster, Md., B. S. Morgan State College, 1967.

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Linda Lee Seitz, of Baltimore, Md., B. S. Towson State College, 1974.

Karen Lee Shavin, of Baltimore, Md., B. A. St. John's College, 1972.

Sara Jane Silver, of Baltimore, Md., B. A. University of California, 1976.

Adele J. Siwak, of Baltimore, Md., B. S. Villanova University, 1965.

Iris Joan Clarke Steele, of Randallstown, Md., B. S. Virginia State College, 1971.

Peggy Ann Sterling, of Baltimore, Md., B. S. Coppin State College, 1974.

Amy Leput Strahl, of Baltimore, Md., B. S. California State College, 1973.

Ilene Pickus Sunderland, of Linthicum Heights, Md., B. S. Towson State College, 1961.

Nancy Ward Taylor, of Joppa, Md., B. S. Towson State College, 1974.

William Thomas Thrasher III, of Laurel, Md., B. A. Frostburg State College, 1972.

Ruthanne Russell Topping, of Baltimore, Md., A. A. George Washington University, 1959; B. S. Coppin State College, 1973,

Vera Gilliam Towns, of Baltimore, Md., B. S. Coppin State College, 1962.

Eileen Rae Turowski, of Havre de Grace, Md., B. S. University of Pittsburgh, 1973.

Patricia Dixon Vane, of Baltimore, Md., B. S. Towson State College, 1972.

Susan Staylor Vohrer, of Reisterstown, Md., B. S. Towson State College, 1974.

Susan Williams Wade, of Baltimore, Md., B. S. University of Utah, 1973.

George Edward Weicker III, of Baltimore, Md., B. A. Davidson College, 1975.

Sharon Davis Weld, of Cambridge, Mass., B. A. Goucher College, 1970.

Michael Emil Wessely, of Baltimore, Md., B. A. University of Maryland, 1974.

Bonita Friend Williams, of Baltimore, Md., B. A. Goucher College, 1975.

Francis Michael Wolfe, of Baltimore, Md., B. S. Towson State College, 1973.

Peter Batchelor Zale, of Baltimore, Md., B. A. The Johns Hopkins University, 1973.

Sondra Ruth Raskin Zander, of Euclid, Ohio, B. A. University of Maryland, 1974.

Helen Husar Zlamal, of Columbia Md., B. S. California State College, 1964.

## MASTERS OF LIBERAL ARTS

### in The Evening College

Margery Anne Sauer Adams, of Annapolis, Md., B. S. University of Maryland, 1972.

Margery Hume Ammon, of Baltimore, Md., B. A. Dominican College, 1972; M. A. San Francisco University, 1973.

Gail Stank Amoss, of Baltimore, Md., B. A. Towson State College, 1972.

Myrna Joanne Dolven Anderson, of Towson, Md., B. A. University of Montana, 1954.

James William Archer, of Baltimore, Md., B. S. The Johns Hopkins University, 1972.

Mary Sue Ray Arnold, of Lutherville, Md., B. A. Towson State College, 1974.

Margaret Gallagher Baldwin, of Baltimore, Md., B. A. St. Mary's College, 1970.

Leo Francis Behrendt, of Ashton, Md., B. A. Loyola College, 1972.

David Paul Bendann, Jr., of Baltimore, Md., B. A. Washington and Lee University, 1967.

Kathleen Bitzel Bennett, of Baltimore, Md., B. A. College of Notre Dame of Maryland, 1967.

Deborah Mary Bentz, of Baltimore, Md., B. A. University of Maryland, 1972.

Janet Sidena Bollias, of Baltimore, Md., B. S. Towson State College, 1968; M. Ed., The Johns Hopkins University, 1973.

Elaine Hope Bonwit, of Silver Spring, Md., B. A. George Washington University, 1945.

Roger Elliott Bort, of Edgewood, Md., B. A. Syracuse University, 1971.

Anna Marie Bosica, of Columbia, Md., B. A. Mount St. Agnes College, 1971.

Ursula A. Buher, of Baltimore, Md., B. A. University of Maryland, 1972.

Anna Dunlap Burgess, of Towson, Md., B. A. University of California, Los Angeles, 1938.

Judith Feuz Burke, of Cockeysville, Md., B. S. N. Syracuse University, 1962.

James A. Burns, of Baltimore, Md., B. S. Rider College, 1971.

Bonnie Jean Caples, of Baltimore, Md., B. A. Frostburg State College, 1967.

Joseph John Cegelski, of Pasadena, Md., B. S. Loyola College, 1964.

Karen Jeannine Minick Cherry, of Laurel, Md., B. S. Mary Washington College, 1971.

Shirley Alt Conklin, of Baltimore, Md., B. A. Goucher College, 1944.

Jo Ann Guyton Davison, of Baltimore, Md., B. A. Converse College, 1955.

Toby Rice Drews, of Baltimore, Md., B. A. Morgan State College, 1973.

Susan L. Eavenson, of McDonogh, Md., B. A. College of Notre Dame of Maryland, 1973.

Renata Cordray Etherton, of Baltimore, Md., B. S. Towson State College, 1974.

David MacIntosh Evans, of Bel Air, Md., M. S. Morgan State College, 1974.

Martha Sue Evans, of Baltimore, Md., B. S. St. Mary of the Woods College, 1971.

Marsha Wolfe Fall, of Crofton, Md., B. A. University of Louisville, 1969.

William Allen Feild, Jr., of Baltimore, Md., B. A. Loyola College, 1970.

Willa Jean Ferguson, of Baltimore, Md., B. S. Towson State College, 1972.

Lorraine Thess Flowers, of Baltimore, Md., B. A. Towson State College, 1970.

Michelle Foster, of Baltimore, Md., B. S. California State College, Pa., 1969.

Perry Claude Foster, of York, Pa., B. A. Lyndon State College, 1971.

Edward Charles Fotheringill, of Owings Mills, Md., B. S. Towson State College, 1973.

Joel Gene Fradin, of Baltimore, Md., B. A. University of Maryland, 1961; J. D., 1970.

Nancy Gregor Frame, of Baltimore, Md., B. A. University of Pittsburgh, 1972.

Donna Jean Fuchsluger, of Baltimore, Md., B. A. Wake Forest University, 1974.

William Ward Gaches, of Laurel, Md., B. A. Westminster College, 1974.

James Francis Galbraith, Jr., of Bel Air, Md., B. A. St. John's University, 1963.

Kathleen Louise Gilbert, of Baltimore, Md., A. A. Catonsville Community College, 1973; B. F. A. Maryland Institute, College of Art, 1975.

Myra Silberstein Goldgeier, of Baltimore, Md., B. A. Hood College, 1959.

Harriet Lipsch Goldman, of Baltimore, Md., B. A. Goucher College, 1965.

Steven Ballard Hafen, of Baltimore, Md., M. A. University of Maryland, 1971.

Dorothy Hergenroeder Hall, of Baltimore, Md., B. A. Mount St. Agnes College, 1971.

Roberta Heffner Hamlin, of Baltimore, Md., B. S. Texas Women's University, 1959.

Katherine Taylor Hartig, of Baltimore, Md., B. A. Seton Hill College, 1974.

Betty Smith Hefner, of Baltimore, Md., B. S. The Johns Hopkins University, 1974.

Faye Irish Henderson, of Glenwood, Md., B. A. University of Maine, 1954.

Anne Wilson Heuisler, of Baltimore, Md., B. A. Hood College, 1959.

Louise Christian Hill, of Towson, Md., A. A. Villa Julie College, 1973; B. S. Towson State College, 1975.

Robet Paul Hines, of Adelphi, Md., B. S. Towson State College, 1969.

William Henry Hughes, of Abington, Pa., B. A. La Salle College, 1970.

Judith Caroline Reesor Hutchinson, of Linthicum Heights, Md., B. A. Winthrop College, 1958.

Terry Ann Jacobus, of Baltimore, Md., B. S. Indiana University, 1964.

Strephon Hayward Johnson, of Annapolis, Md., B. A. Frostburg State College, 1965; M. A. Morgan State College, 1971.

John Wesley Jones, Jr., of Bel Air, Md., B. S. Frostburg State College, 1971.

Harriett Jeanne Kahn Kessler, of Baltimore, Md., B. A. Western Maryland College, 1951.

Earl Kay Kinter, of Columbia, Md., B. A. University of Maryland, 1972.

Marlene Margaret Kuhl, of Baltimore, Md., B. S. University of Maryland, 1974.

James Michael Lanahan, of Gaithersburg, Md., B. A. The Johns Hopkins University, 1968.

Ruth Gayle Layfield Latshaw, of Baltimore, Md., B. A. Hollins College, 1970.

Cheryl Turturro Lepain, of Baltimore, Md., B. A. Bridgewater State College, 1970.

Linda Marie Waldmann Linthicum, of Annapolis, Md., B. S. Towson State College, 1966.

Carol Forsbeck Magee, of Ellicott City, Md., B. S. Illinois State Normal University, 1956.

Mary Filippetti Markey, of Laurel, Md., B. A. Stonehill College, 1957.

Daniel Patrick McCarthy, of Columbia, Md., B. A. Loyola College, 1972.

Perie Sollod Meltzer, of Baltimore, Md., B. A. University of Maryland, 1962.

Robert Clare Mengel, of Glen Burnie, Md., B. A. University of Maryland, 1973.

Rose Anne Miciche, of Laurel, Md., B. A. Towson State College, 1972.

Nancy Jean Cheelsman Milarcik, of Baltimore, Md., B. A. Towson State College, 1974.

Leslie Bernstein Miller, of Columbia, Md., B. A. University of Maryland, 1970.

Shari M. Miller, of Baltimore, Md., B. A. University of Baltimore, 1972.

Natalie Kay Morganstein, of Baltimore, Md., B. A. Towson State College, 1969.

Milton Mercer Neale, of Baltimore, Md., B. S. Hampden-Sydney College, 1967; M. Ed. Towson State College, 1972.

Denis Michael O'Brien, of Baltimore, Md., B. S. The Johns Hopkins University, 1976.

Susan Dee Peterson, of Baltimore, Md., B. A. Wilson College, 1974.

Holly Alpine Phelps, of Reisterstown, Md., B. A. The Johns Hopkins University, 1974.

Albin MacDonough Plant, of Baltimore, Md., LL. B. University of Virginia, 1963.

JoAnn Marie Carbone Rich, of Baltimore, Md., B. S. Indiana University of Pennsylvania, 1968.

Gretchen Schultz Roth, of Pasadena, Md., B. A. Washington College, 1972.

Philip Edward Russell, of Silver Spring, Md., B. A. Boston College, 1969.

Veronica Ruszin, of Columbia, Md., B. A. University of Maryland, 1972.

Steven Warren Sachs, of Ellicott City, Md., B. A. Duke University, 1969.

Douglas Alan Samson, of Bowie, Md., B. A. The Johns Hopkins University, 1975.

Betty R. Sattler, of Lutherville, Md., B. S. The Johns Hopkins University, 1975.

Ardith Lynn Scarborough, of Severna Park, Md., B. A. Towson State College, 1972.

Kathleen Hayes Schmidt, of Ellicott City, Md., B. A. Mary Washington College, 1970.

Marilyn Leuthold Schramm, of Baltimore, Md., B. S. The Johns Hopkins University, 1976.

Joan Hannah Salim Smith, of Baltimore, Md., B. A. Western Reserve University, 1966.

Lydia Noel Smithers, of Annapolis, Md., B. A. Hood College, 1973.

Patricia Reese Snipes, of Owings Mills, Md., B. A. Pembroke State University, 1970.

Margaret Deborah Lang Soukup, of Baltimore, Md., B. A. Western Maryland College, 1973.

Marianne May Artino Taylor, of Pasadena, Md., B. A. College of Notre Dame of Maryland, 1959.

Sharon Lynn Jensen Toolan, of Randallstown, Md., B. A. Towson State College, 1973.

Chikao Tsubaki, of Baltimore, Md., M. P. A. American University, 1969.

Ruth Hale Wales, of Silver Spring, Md., M. L. S. University of Maryland, 1969.

Arthur Leroy Watson, of York, Pa., B. S. The Johns Hopkins University, 1972.

Mary Jane Westheimer Weinberg, of Baltimore, Md., B. S. The Johns Hopkins University, 1974.

Judy Marie Tyssowski Wheatley, of Baltimore, Md., B. A. Bethany College, 1973.

Regina Ann White, of Baltimore, Md., B. A. University of Maryland, 1974.

Phoebe Ann Wilson Wittman, of Columbia, Md., B. A. Michigan State University, 1968.

Claudia Sayre Zadroga, of Baltimore, Md., B. A. Fairmont State College, 1969.

# MASTERS OF ADMINISTRATIVE SCIENCE

## in The Evening College

Mark Edward Ackman, of Cockeysville, Md., B. S. Virginia Polytechnic Institute, 1974.

Jeffrey John Auchmoody, of Monrovia, Md., B. A. Marist College, 1971.

James Alan Baker, of McSherrystown, Pa., B. S. York College of Pennsylvania, 1975.

Mary Jane Banks, of Columbia, Md., B. A. Pennsylvania State University, 1971.

Richard S. Bedell, of Essex, Md., B. E. State University of New York, Maritime College, 1975.

Karen Ann Bernhardt, of Silver Spring, Md., B. A. Goucher College, 1973.

David Allan Biviano, of Columbia, Md., B. B. A. Ohio University, 1969.

Lawrence Joseph Blair, Jr., of Sykesville, Md., B. S. United States Naval Academy, 1972.

Bruce Bland Bottomley, of Columbia, Md., B. S. Massachusetts Institute of Technology, 1965; M. S. Washington State University, 1970.

Richard Hawes Brill, of Reisterstown, Md., B. S. Virginia Polytechnic Institute, 1970.

Beth Ireland Brodt, of Baltimore, Md., B. A. University of Pittsburgh, 1971.

Jo Louise Brownlow, of Baltimore, Md., B. A. College of Notre Dame of Maryland, 1975.

Richard Wayne Bush, of Columbia, Md., B. S. Chem. Massachusetts Institute of Technology, 1956; Ph. D. University of Illinois, 1960.

Deborah Carol Manger Carski, of Baltimore, Md., B. A. College of Notre Dame of Maryland, 1972.

Kai-Yun Chiu, of Cockeysville, Md., M. L. S. University of California, 1962.

John Joseph Clarke, of Baltimore, Md., B. S. St. Joseph's College, 1963.

Gaydie Connolly, of Edgewood, Md., B. A. American University, 1969.

Patrick Allen Connor, of Aberdeen, Md., B. S. Drexel University, 1971.

Samuel Michael Cordish, of Baltimore, Md., B. A. University of Pennsylvania, 1970.

Richard Paul Corkran, of Columbia, Md., B. A. Franklin and Marshall College, 1969.

John Thomas Daily, Jr., of Baltimore, Md., B. A. Western Maryland College, 1967.

Ernest Cornelius Davis, of Columbia, Md., B. S. Virginia Union University, 1964; B. S. E. E. Brooklyn Polytechnic Institute, 1966.

John Norris Davis, of White Marsh, Md., B. S. Towson State College, 1968.

William Clarke Dee, of Baltimore, Md., B. E. S. The Johns Hopkins University, 1959.

Monica Helen DiGiovanni, of Baltimore, Md., B. A. The Johns Hopkins University, 1976.

Michael Joseph Dreimiller, of Baltimore, Md., B. S. University of Baltimore, 1973.

David Wesley Duckworth, of Joppatowne, Md., B. E. E. General Motors Institute, 1974.

Mark Ledden Eisenman, of Columbus, Ohio, B. S. C. E. Ohio State University, 1972.

Daniel Owen Ellingson, of Columbia, Md., B. S. E. E. Oregon State University, 1973.

Larry Elliott, of Baltimore, Md., B. A. Morgan State College, 1972.

Jane Anderson Flaherty, of Severna Park, Md., B. S. University of Baltimore, 1976.

Donald Peter Garrett, of Jacobus, Pa., B. S. E. E. Case Western Reserve University, 1972.

Joel David Gayetsky, of Pasadena, Md., B. E. Youngstown State University, 1970.

Robert Joseph Gentry, of York, Pa., B. S. Loyola College, 1968.

Curtis Charles Gibson, Jr., of Budd Lake, N. J., B. A. University of Maryland, 1972.

Michael Casimo Gidos, of Arnold, Md., B. A. Columbia University, 1961.

Peter Raymond Gill, of Burke, Va., B. S. University of Maryland, 1973.

Barbara Brigitte Gladfelter, of Columbia, Md., B. S. Loyola College, 1974.

Roger Lewis Goldblatt, of Washington, D. C., B.A. George Washington University, 1973.

William Elsworth Groft, of York, Pa., B. A. University of Michigan, 1967.

Prem Chandran Harris, of Baltimore, Md., B. S. E. The Johns Hopkins University, 1972.

Dara Beth Hauser, of Baltimore, Md., B. A. Goucher College, 1975.

Charles William Henkle, of Timonium, Md., B. S. Ohio State University, 1972.

Robert Gray Howard, of Annapolis, Md., B. S. University of Wyoming, 1964.

Edmond Ray Jarrell, of Westminster, Md., B. S. West Virginia Institute of Technology, 1969.

Kirit Mansukhlal Jhaveri, of Baltimore, Md., M. S. Worcester Polytechnic Institute, 1972.

Kenneth Edward Johnson, of Baltimore, Md., B. S. Morgan State College, 1964.

Lawrence John Kalb, of Baltimore, Md., B. S. E. The Johns Hopkins University, 1974.

George John Kellinger, of Belle Mead, N. J., B. S. M. E. Polytechnic Institute of New York, 1952.

Chang-Ho Kim, of Baltimore, Md., LL. B. College of Law, Seoul National University, 1961; M. S. in Lib. Sci. Drexel Institute of Technology, 1970.

Robert John Kolscher II, of Severn, Md., B. A. University of Baltimore, 1972.

Shirley Marcus, of Randallstown, Md., B. A. University of Maryland, 1972.

Robert Lee Maxwell, of Baltimore, Md., B.A. Prairie View Agricultural and Mechanical College, 1968.

George A. Mitchell, of Glen Burnie, Md., B. A. University of Iowa, 1969.

John Kirkland Moy, of Baltimore, Md., A. A. Monterey Peninsula College, 1971; B. S. California State University, 1973.

William Michael Mueller, of Baltimore, Md., B. A. St. Mary's Seminary and University, 1961.

Charles Alden Packard, of Laurel, Md., B. S. American National College, 1962.

Helen Marikle Passano, of Baltimore, Md., B. A. College of Notre Dame of Maryland, 1969.

Barbara Jean Snodgrass Phillips, of Columbia, Md., B. A. University of Maryland, 1973.

Antonina Augusta Hoffer Rabbu, of Reisterstown, Md., B. A. Ohio University, 1971.

Paul Thomas Reed, of Baltimore, Md., B. S. Towson State College, 1974.

Scott Jeffrey Ross, of Columbia, Md., B. A. Arch. Pratt Institute, 1969; M. C. P. in U. D. Harvard University, 1972.

John Caswell Rossi, of Lutherville, Md., B. A. Bucknell University, 1973.

Neal Harris Ruchman, of Columbia, Md., B. A. George Washington University, 1973.

Cary Bruce Sappington, of Severna Park, Md., B. S. Ch. E. University of Maryland, 1972.

Leon Stephen Scaldeferri, of Columbia, Md., B. S. E. E. Drexel University, 1968.

Robert John Schuerholz, of Baldwin, Md., B. S. E. The Johns Hopkins University, 1971.

Karyn F. Cook Sheridan, of Baltimore, Md., B. A. Bryn Mawr College, 1974.

Anne Ningard Simmons, of Sykesville, Md., B. A. University of Maryland, 1973.

Barrett Gregory Smith, of Catonsville, Md., B. S. The Johns Hopkins University, 1970.

Yvonne Cohen Strom, of Columbia, Md., B. S. Jacksonville University, 1969.

William Calvin Swift, of Baltimore, Md., B. S. Fayetteville State Teachers College, 1966.

Robert Charles Taylor, of Columbia, Md., B. A. Bowdoin College, 1963.

Umran Fatma Uras, of Baltimore, Md., B. A. Robert College, 1974.

Ann Theresa Marek Walker, of Milwaukee, Wis., B. B. A. University of Wisconsin, 1973.

Kenneth A. Walker, of Lutherville, Md., B. S. Cornell University, 1971.

Richard William Warfield, of Glen Burnie, Md., B. E. Stevens Institute of Technology, 1973.

Eddie Williams, Jr., of Bel Air, Md., B. S. North Carolina Agricultural and Technical State University, 1972.

Edward Nathaniel Thomas Charles Williams, of Baltimore, Md., B. A. Yale University, 1973.

John Forrest Wittman, of Columbia, Md., B. S. Michigan State University, 1969.

Alexander Grosset Yearley, of Baltimore, Md., B. A. Kenyon College, 1969.

Ralph Conrad Young, Jr., of Baltimore, Md., B. S. M. E. Virginia Polytechnic Institute, 1973.

# CERTIFICATES OF ADVANCED STUDY

## in The Evening College

Lydia Louise Grinage Alexander, of Baltimore, Md., B. S. Coppin State College, 1957; M. Ed. The Johns Hopkins University, 1971. Education.

Yvonne Cynthia Waller Banks, of Baltimore, Md., B. S. Morgan State College, 1959; M. Ed. Coppin State College, 1975. Education.

Dennis Craig Barlow, of Kingsville, Md., B. A. Purdue University, 1967; M. L. A. The Johns Hopkins University, 1974. Liberal Arts.

Lorraine Bass, of Baltimore, Md., M. S. Morgan State College, 1973. Education.

Marvin Lorraine Bigham, of Baltimore, Md., M. Ed. University of Pittsburgh, 1968. Education.

Gertrude Johnson Brooks, of Baltimore, Md., B. S. Morgan State College, 1959; M. Ed. The Johns Hopkins University, 1975. Education.

Ruth Jeannette Payne Brown, of Baltimore, Md., B. S. Bluefield State College, 1955; M. Ed. The Johns Hopkins University, 1961. Education.

Carol Wirt Burke, of Crofton, Md., B. A. Wilson College, 1953; M. A. Columbia University, 1954. Education.

Margaret Hatch Butler, of Baltimore, Md., B. A. Carlton College, 1946; M. L. A. The Johns Hopkins University, 1972. Liberal Arts.

Marian Patricia Gillett Carpenter, of North Linthicum, Md., M. Ed. State University of New York, Buffalo, 1960. Education.

Mary Amos Cary, of Baltimore, Md., B. A. Winthrop College, 1965; M. A. Morgan State College, 1970. Liberal Arts.

Steven Frank Cohen, of Baltimore, Md., M. A. George Washington University, 1974. Education.

Susan Henri Levine Coleman, of Baltimore, Md., M. S. Teachers College, Columbia University, 1974. Education.

Carole Ann Cross, of Baltimore, Md., M. A. The Johns Hopkins University, 1963. Liberal Arts.

Elizabeth Stephens Daniel, of Baltimore, Md., M. Ed. The Johns Hopkins University, 1974. Education.

Rose Marie Day, of Baltimore, Md., B. S. N. University of Pennsylvania, 1966; M. S. University of Maryland, 1972. Education.

Richard Alexander Dezes, of Towson, Md., M. Ed. Towson State College, 1973. Education.

Lewis Hyde Dooley, of Delta, Pa., B. A. Western Maryland College, 1939; M. Ed. Millersville State College, 1971. Education.

Gary Paul Dye, of Baltimore, Md., B. S. Slippery Rock State College, 1965; M. Ed. University of Pittsburgh, 1966. Education.

Hoyle Edwards, of Baltimore, Md., M. A. T. Appalachian State University, 1967. Education.

June C. Ide Ellison, of Owings Mills, Md., M. A. University of California, 1948. Education.

Sara Louise Evans, of Edgewood, Md., B. A. Bethany College, 1968; M. Ed. Towson State College, 1972. Education.

John Neil Fetick, of Bladensburg, Md., M. Ed. Xavier University, 1955. Liberal Arts.

Marilyn Lee Gawronski, of Baltimore, Md., B. S. University of Missouri, 1971; M. S. The Johns Hopkins University, 1974. Education.

Howard Scotty Gehring, of Baltimore, Md., B. S. Towson State College, 1972; M. S. The Johns Hopkins University, 1974. Education.

Charlene Buckner Griffin, of Baltimore, Md., B. S. Coppin State College, 1956; M. Ed. The Johns Hopkins University, 1969. Education.

Thomas Murrill Groce, Jr., of Chestertown, Md., B. S. Morgan State College, 1960; M. S., 1972. Education.

Michael Gerard Gunning, of Bel Air, Md., B. A. Boston College, 1961; M. Ed. The Johns Hopkins University, 1969. Education.

Mary Ann Hallisey, of Lanham, Md., B. S. Towson State College, 1972; M. S. The Johns Hopkins University, 1974. Education.

Myrtle Anne Kenney Hartman, of Bel Air, Md., B. S. Towson State College, 1958; M. Ed. Loyola College, 1969. Education.

Carole Myra Patz Heller, of Baltimore, Md., B. A. Loyola College, 1973; M. Ed., 1975. Education.

Dorothy Joab Hettleman, of Baltimore, Md., B. A. Hunter College, 1947; M. Ed. The Johns Hopkins University, 1972. Education.

Agnes Robinson Hill, of Baltimore, Md., B. S. Coppin State College, 1957; M. E. Loyola College, 1972. Education.

Eunice Purnell Hilliard, of Baltimore, Md., B. S. Morgan State College, 1962; M. Ed. The Johns Hopkins University, 1973. Education.

John Sumner Hillman, of Baltimore, Md., B. A. University of Vermont, 1960; M. A. University of Connecticut, 1962. Liberal Arts.

Ann Bernice Suggs Hunley, of Baltimore, Md., B. A. Morgan College, 1954; M. S. The Johns Hopkins University, 1975. Education.

Hattye L. Handy Jackson, of Baltimore, Md., M. Ed. Loyola College, 1970. Education.

Henry Cleveland Jones, of Baltimore, Md., M. Ed. North Carolina Central University, 1961. Education.

Warren Joseph Jones, of Greensboro, N. C., B. S. North Carolina Agricultural and Technical State University, 1969; M. S., 1974. Education.

Thomas Joseph Karwoski, of Arnold, Md., B. A. University of Pittsburgh, 1965; M. S. Rutgers University, 1967. Liberal Arts.

Ellen Anne Wolfson Kline, of Baltimore, Md., B. S. University of Maryland, 1962; M. L. A. The Johns Hopkins University, 1967. Education.

Lynne Susan Kreyling, of Baltimore, Md., B. A. Concordia Teachers College, 1968; M. A., 1970. Education.

Donald La Marca, of Baltimore, Md., B.A. Alaska Methodist University, 1969; M. Ed. The Johns Hopkins University, 1973. Education.

Alice Sue Cooper Lee, of Baltimore, Md., B. S. Coppin State College, 1965; M. S. The Johns Hopkins University, 1975. Education.

George Smithson Lloyd, of Pasadena, Md., M. Ed. University of Maryland, 1969. Education.

David Reimer Lynn, of Columbia, Md., M. Ed. University of Hawaii, 1968; C. A. S. The Johns Hopkins University, 1974. Education.

Rocci Stephen Mastroberti, of Arnold, Md., M. S. American University, 1970. Education.

Angie Chambers McCullum, of Baltimore, Md., B. S. Bowie State College, 1960; M. Ed. The Johns Hopkins University, 1975. Education.

George Thomas McGuckian, of Arnold, Md., M. S. American University, 1972. Education.

Virginia Hopper Mead, of Columbia, Md., M. Ed. Goucher College, 1971. Education.

Gregory Marshall Metrinko, of Glen Burnie, Md., M. S. Morgan State College, 1972. Education.

Daniel Morris, of Baltimore, Md., B. A. Morgan State College, 1968; M. S., 1971. Education.

Jo-Ann Cechin Murphy, of Baltimore, Md., B. A. Fitchburg State College, 1966; M. L. A. The Johns Hopkins University, 1969. Liberal Arts.

Madelyn J. Mushinski, of Cockeysville, Md., M. S. Loyola College, 1973. Education.

Deborah Ellen Kazik Naworol, of Edgewood, Md., B. S. Indiana University of Pennsylvania, 1970; M.Ed. Western Maryland College, 1974. Education.

Allan Joseph Olchowski, of Baltimore, Md., B. A. Towson State College, 1969; M. Ed. Coppin State College, 1973. Education.

Joann Harney Olchowski, of Baltimore, Md., B. S. Towson State College, 1970; M. Ed. Coppin State College, 1973. Education.

Patricia Masson Page, of Frederick, Md., M. Ed. Loyola College, 1974. Education.

William Henry Philipp, Jr., of Columbia, Md., M. S. Syracuse University, 1967. Education.

Elaine Gail Prentis, of Baltimore, Md., B. A. University of Maryland, 1970; M. Ed. The Johns Hopkins University, 1973. Education.

Beverly Ann Givens Reid, of Baltimore, Md., B. S. Morgan State College, 1960; M. A. New York University, 1966. Education.

James Raymond Sasiadek, of Baltimore, Md., B. A. St. Mary's Seminary, 1969; M. S. The Johns Hopkins University, 1975. Education.

Rowland Lee Savage, of Baltimore, Md., B. A. Mount St. Mary's College, 1967; M. S. The Johns Hopkins University, 1974. Education.

William Andrew Seth, of Centreville, Md., M. Ed. University of Georgia, 1968. Education.

Edward West Sherburne, Jr., of Silver Spring, Md., M. A. George Washington University, 1971. Education.

Ralph H. Shewell, Jr., of Westminster, Md., B. S. Towson State College, 1967; M. S. 1975. Liberal Arts.

Lois Moses Shofer, of Baltimore, Md., M. A. University of Maryland, 1969; Ph. D., 1972. Education.

Joseph Morsell Showell, of Randallstown, Md., B. S. Morgan State College, 1965; M. Ed. The Johns Hopkins University, 1970. Education.

Carrie Elizabeth Singleton, of Baltimore, Md., B. S. Morgan State College, 1973; M. Ed. Coppin State College, 1975. Education.

Leonard James Sokoloff, of Pasadena, Md., B. A. Washington and Jefferson College, 1969; M. S. The Johns Hopkins University, 1974. Education.

Jon Ashley Stefanides, of Bel Air, Md., M. Ed. Slippery Rock College, 1970. Education.

Beverly Heuschober Steuart, of Baltimore, Md., M. Ed. Loyola College, 1974. Education.

Anne Mary Stevens, of Glen Burnie, Md., B. A. University of Maryland, 1970; M. A., 1972. Liberal Arts.

Nancy Oberle Taylor, of Simpsonville, Md., B. S. Towson State College, 1970; M. Ed. University of Virginia, 1971. Education.

Shirley Rothenburg Tepper, of Baltimore, Md., B. S. University of Wisconsin, 1957; M. S. The Johns Hopkins University, 1973. Education.

Lila Lee Terry, of Baltimore, Md., M. Ed. University of Pittsburgh, 1952. Education.

Cortiaa Fay Thacker, of Baltimore, Md., M. A. Coppin State College, 1975. Education.

Judy Ingram Thompson, of Braddock Heights, Md., M. Ed. University of Virginia, 1972. Education.

Freda Starvis Tidwell, of Baltimore, Md., B. S. Morgan State College, 1964; M. S., 1973. Education.

Robert Reynolds Waddell, of Odenton, Md., B. S. The Johns Hopkins University, 1969; M. A. Appalachian State University, 1974. Education.

Claire Decker Wenzel, of Phoenix, Md., B. S. University of Maryland, 1958; M. S. Ed. Towson State College, 1974. Education.

John Osborne Wineke, of Ellicott City, Md., B. S. Towson State College, 1972; M. Ed., 1975. Education.

Joseph Wildman Zebley, Jr., of Baltimore, Md., B. S. University of Maryland, 1932; M. Ed. The Johns Hopkins University, 1973. Education.

## MASTERS OF SCIENCE

### in The School of Hygiene and Public Health

Jane Rahl Apson, of Baltimore, Md.; B. A. Skidmore College, 1967. Health Services Administration.

*Changing Communication in a Multidisciplinary Health Team Conference Using Data Feedback Analysis.*

Radheshyam Bairagi, of Dist. Raridpur, Bangladesh; B. S. Dacca University, 1960; M. S. Dacca University, 1962. Population Dynamics.

*An Analysis of Malnutrition Among Young Children in Rural Bangladesh.*

Thomas Joseph Beck, of Baltimore, Md.; B. S. University of Maryland, 1974. Environmental Health Sciences.

*Quantitation of Current Practice in the Roentgenography of Infants and Children for Absorbed Dose Calculations.*

Jwo-Farn Chiou, of Taiwan, China; D. V. M. National Taiwan University, 1969. Pathobiology.

*Fluorescent Antibody Study of Diseased, End-stage Human Kidneys to Assess Possible Viral Etiology.*

George Okadibo Edmonds, of Nigeria; B. S. University of Wales, 1970. Pathobiology.

*Studies on Mycobacterial Dihydrofolate Reductasei Enzymic Properties and Inhibiton by Synthetic Folate Analogs.*

John Corban Goble, of Baltimore, Md.; B. S. Pennsylvania State University, 1976. Environmental Health Sciences.

*Factors Affecting Perception of Myocardial Perfusion Defects Using Thallium-201.*

Michael Joseph Horan, of Baltimore, Md.; B. A. Manhattan College, 1967; M. D. Georgetown University, 1971. Health Services Administration.

*Evaluation of the Osler Firm System to Determine the Extent to Which Selected Aspects of Primary Care Have Been Altered.*

Li-Hua Huang, of Tokyo, Japan; B. S. The Johns Hopkins University, 1974. Biochemistry.

*Benzo (a) pyrene Metabolism by Syrian Hamster Embryo Homogenates, Microsomes and Nuclear Membranes.*

Clayton Harry Kallman, of Gainesville, Fla.; B. A. The Johns Hopkins University, 1966. Biostatistics.

*New Procedure for Stepwise Multiple Logit Regression.*

Joanne Leslie, of Washington, D. C.; B. A. Reed College, 1966. International Health.

*Socio-economic Determinants of Child Malnutrition in the Terai Region of Nepal.*

Garry Michael Marley, of Baltimore, Md.; B. S. University of Notre Dame, 1974. Pathobiology.

*Clofazimine Binding Studies with Deoxyribonucleic Acid.*

Donald Edward Morisky, of Baltimore, Md.; B. S. University of Arizona, 1968, M. S. P. H. University of Hawaii, 1972. Population Dynamics.

*Evaluating the Effectiveness of the Utilization of Traditional Birth Attendants (Hilots) as Family Planning Motivators in the Philippines.*

Pelad Paschal Namfua, of Dares Salaam, Tanzania; B. S. Makerere University, Uganda, 1974. Population Dynamics.

*The Demographic Impact of Eliminating a Disease from a Population.*

Charles I. Noss, of Baltimore, Md.; B. A. Shippensburg State College, 1974. Environmental Sciences.

*Enumeration and Isolation of Shigella from Polluted Waters.*

Frank Wesley Rockhold, of Richmond, Va.; B. A. University of Connecticut, 1974. Biostatistics.

*Acute Myocardial Infarction and the Evaluation of Anticoagulant Therapy in Vermont 1969-1973.*

Janet D. Valis, of Baltimore, Md.; B. S. Towson State University, 1974. Pathobiology.

*Characterization of SA12, A Newly Recognized Simian Papovavirus.*

Frances Holgate Vaughan, of Philadelphia, Pa.; B. A. St. Louis University, 1968. Behavioral Sciences.

*Organizational Goals and Resources: An Exploratory Study of Change in an International Religious and Medical Organization.*

## MASTERS OF HEALTH SCIENCE

### in The School of Hygiene and Public Health

Wilfredo Silvano Asoy, of Teresa, Rizal, Philippines; M.D. Far Eastern University, 1967; M. P. H. University of the Philippines, 1975. Health Services Administration, Operations Research.

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Jock Owen Grynovicki, of Baltimore, Md.; B. S. Loyola College, 1976. Biostatistics.

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Jerome Maurice Hauer, of New York, N. Y.; B. A. New York University, 1976. Health Services Administration, Comprehensive Health Planning.

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Frank Richard Madden, of Carlisle, Pa.; B. S. University of Pittsburgh, 1950; M. S. W. University of West Virginia, 1967. Mental Hygiene.

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David Earl Shay, of Baltimore, Md.; B. S. in Econ. University of Pennsylvania, 1951. Mental Hygiene, Alcohol Studies.

Patrick Michael Sirridge, of Kansas City, Mo.; B. A. University of Kansas, 1971; J. D. University of Kansas, 1974. Health Services Administration, Comprehensive Health Planning.

Kalyandrug Sivaram, of Anantapur, India; B. S. Sri Venkateswara University, 1962; M. S. Karnatak University, 1964; M. S. Institute of Agricultural Research Statistics, 1968. International Health.

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Joseph Ting-Lai Young, of Philadelphia, Pa.; B. A. University of Pennsylvania, 1975. Environmental Health Sciences.

Hal Jeffrey Ziegler, of Syracuse, N. Y.; B. S. Syracuse University, 1976. Health Services Administration, Comprehensive Health Planning.

## MASTERS OF PUBLIC HEALTH

### in The School of Hygiene and Public Health

Jacqueline Agnew, of Watertown, Conn.; B. S. Cornell University, 1974. Health Services Administration.

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Anna-Jane Bucur, of Arlington, Va.; A. B. Duke University, 1947; M. D. Woman's Medical College of Pa., 1951. Health Services Administration.

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Harry Guyton Collier, Jr., of Richmond, Va.; B. A. University of Virginia, 1972; J. D. University of Richmond Law School, 1976. Health Services Administration.

Thomas James Conage, of Denver, Colo.; B. S. Morehouse College, 1964; M. D. University of Colorado, 1975. Epidemiology.

Edward Thomas Crandall, of Baltimore, Md.; B. S. Towson University, 1974. Health Services Administration.

Josephine DiStefano Croucher, of Baltimore, Md.; B. S. N. University of Maryland, 1975. Maternal and Child Health.

Donald Joseph Curry, of Calgary, Alberta, Canada; M. D. University of Calgary, 1974. International Health.

Nils Maarten Parin Daulaire, of South Royalton, Vermont; B. A. Harvard College, 1970; M. D. Harvard Medical School, 1976. International Health.

Ricardo Dávila, of McAllen, Tex.; B. S. University of Minnesota, 1972; M. D. University of Minnesota School of Medicine, 1976. Epidemiology.

Robert Jerome W. Davis, of Peoria, Ill.; B. A. Yale University, 1971. Health Services Administration, Comprehensive Health Planning.

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Katherine Patricia Mary Farrell, of Cork, Ireland; M. B. B. Ch., B. A. O. National University of Ireland, 1972. Environmental Health Sciences.

Donald Owen Fedder, of Baltimore, Md.; Pharm. B. S. University of Maryland School of Pharmacy, 1950. Health Services Administration.

Thomas Fisch, of Suhr, Switzerland; Dr. Med. University of Zürich, 1976. Health Services Administration.

Richard Walter Freeman, of Baltimore, Md.; B. S. Cornell University, 1973; B. S. The Johns Hopkins University, 1975. Health Services Administration.

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Jane Lee Halpern, of St. Louis, Mo.; B. A. University of Wisconsin, 1968; M. D. Albert Einstein College of Medicine, 1972. Health Services Administration.

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Elizabeth Baker Harvey, of Baltimore, Md., B. A. Goucher College, 1968; M. H. S. The Johns Hopkins University, 1974. Environmental Health Sciences.

Walter Ray Hepner, Jr., of Baltimore, Md.; B. S. University of Chicago, 1943; M. D. University of Chicago, 1944. International Health.

Stephen Paul Heyse, of Valley Stream, N. Y.; A. B. University of North Carolina, 1970; M. D. State University of New York Upstate Medical Center, 1974. Health Services Administration.

Doreen Gay Hill, of Annapolis, Md.; A. B. Indiana University, 1973; M. S. Georgetown University, 1976. Epidemiology.

Alfred Warner Hoadley, of Atlanta, Ga.; A. B. Harvard College, 1957; S. B. Harvard College, 1958; M. S. University of Wisconsin, 1963; Ph. D. University of Wisconsin, 1967. Pathobiology.

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Roberta Beth Hollander, of Lauderhill, Fla.; B. A. Boston University, 1967; M. A. The George Washington University, 1971. Health Services Administration.

Donna Mae Hopkins, of Westminster, Md.; B. S. Columbia Union College, 1963. Health Services Administration.

Jean Garber Huang, of Baltimore, Md.; B. S. N. Eastern Mennonite College, 1963. Maternal and Child Health.

Suzanne Marie Hutsko, of Minersville, Pa.; B. S. Cedar Crest College, 1975. Health Services Administration.

Mohammad Rafi Jalali, of Shahroud, Iran; M. D. Pahlavi Medical School, 1973. Environmental Health Sciences.

Eric Jannerfeldt, of Stockholm, Sweden; M. D. Karolinska Institutet, 1971. International Health.

Stephen Francis Jencks, of Baltimore, Md.; B. A. Harvard College, 1962; M. D. Harvard Medical School, 1967. Health Services Administration.

Monique Julien-Dubé, of Montreal, Quebec, Canada; B. S. Laval University, Quebec, 1958; M. S. University of Montreal, Quebec, 1975. Health Services Administration.

Jacob Daniel Kanofsky, of Philadelphia, Pa.; B. A. Temple University, 1969; M. D. Jefferson Medical College, 1974. Epidemiology.

Nadim Elias Karam, of Brummana, Lebanon; B. S. American University of Beirut, Lebanon, 1973; M. D. American University of Beirut, Lebanon, 1977. Maternal and Child Health.

Ross S. Kazer, of New York City, N. Y.; B. A. Columbia University, 1968; M. D. Albert Einstein College of Medicine, 1973. Health Services Administration.

Marlyn L. Kefauver, of Bethesda, Md.; B. S. Georgetown University, 1965. International Health.

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David Evans Kern, of Baltimore, Md.; B. A. Princeton University, 1966; M.D. Harvard Medical School, 1971. Health Services Administration.

Aena L. Konde, of Kinshasa, Zaire; B. S. Catholic University of Louvain, 1971. International Health.

Beatrice Mary Kovasznay, of Baltimore, Md.; B. A. Radcliffe College, 1972; M. D. Johns Hopkins University School of Medicine, 1976. International Health.

Christopher Lyon Krogh, of Madison, Wis.; B. A. University of Wisconsin, Madison, 1970; M. D. University of Wisconsin, Madison, 1974. Pathobiology.

Alan Alvin Lipton, of New York City, N. Y.; M. D. Tulane University, 1951. International Health.

Diane Marie Lischio, of Solana Beach, Calif.; B. S. Boston College, 1972. Epidemiology.

Barbara E. Long, of Baltimore, Md.; B. S. N. University of Bridgeport, 1976. Health Services Administration.

Thomas Henry Love, of Allenspark, Colo.; B. S. N. Temple University, 1974. International Health.

Carol Anne Magee, of Washington, D. C.; B. S. N. University of Maryland, 1964. Health Services Administration.

Jonna-Lynn Knauer Mandelbaum, of Baltimore, Md.; B.S.N. Lebanon Valley College, 1969. Maternal and Child Health.

Istifanus Muhammadu Mangga, of Multafu, Borno, Nigeria; M. B. B. S. Ahmadu Bello University, Zaria, 1973. International Health.

Charlynn Carol Maniatis, of Baltimore, Md.; B. A. Wellesley College, 1969; J. D. Harvard Law School, 1972. Health Services Administration.

Sayeeda Mannan, of Dacca, Bangladesh; B. S. University of Dacca, 1967; M. S. University of Dacca, 1968. International Health.

Robert Allan Margulies, of Bayonne, Hudson County, N. J.; A. B. Rutgers University, 1965; M. D. College of Medicine and Dentistry of New Jersey, 1969. Environmental Health Sciences.

Lynn V. Marshall, of Baltimore, Md.; B. S. University of Notre Dame, 1950; L. L. B. Columbia Law School, School, 1953. International Health.

Alan Elio Mataldi, of Virginia Beach, Va.; B. S. George Washington University, 1973. Environmental Health Sciences.

Susan Howard Mather, of Bowie, Md.; B. S. University of Maryland, 1964; M. D. University of Maryland School of Medicine, 1965. Epidemiology.

Kenneth William McKenzie, of Toronto, Ontario, Canada; B. S. University of Toronto, 1971; M. D. University of Toronto, 1975. Pathobiology.

Sharon Grace Meng, of Atlanta, Ga.; B. S. N. Medical College of Georgia, 1976. Health Services Administration.

Diana Jean Mertens, of Chicago, Ill.; B. S. N. University of Illinois, Chicago Medical Center, 1975. Maternal and Child Health.

Oscar Enrique Morales Moreno, of Lima, Peru; M. D. San Marcos University, 1958. International Health.

Mariquita G. Mullan, of Washington, D. C.; B. S. N. Catholic University, 1975. Health Services Administration.

Nana Obuobisa Newman, of Akropong, Akwapim, Ghana; M. D. University of Würzburg, West Germany, 1970. Epidemiology.

Mark A. Nichter, of United States of America; B.A. George Washington University, 1971; D. I. P. Edinburgh University, 1973; Ph. D. Edinburgh University, 1977. International Health.

Chukwuma Gabriel Nwaesei, of Lagos, Nigeria; M. D. Leningrad Pediatrics Medical Institute, USSR, 1973. Maternal and Child Health.

Beatrice Mojisola Oduyoye, of Lagos, Nigeria; B.S., S.R.N. Epsom District Hospital, England, 1961; S. C. M. St. Mary's Hospital, Portsmouth, England, 1962. Health Services Administration.

Roberta Stone O'Grady, of Oakland, Calif.; B. S. Stanford University, 1958; M. A. New York University, 1962. Maternal and Child Health.

Frederick Samuel Jonathan Oldfield, of Banjul, The Gambia; M. B. B. Ch. Queen's University, Belfast, 1959. Epidemiology.

Adekunle Olayemi Olowu, of Ibadan, Nigeria; M. D. Friendship University Moscow, 1974. International Health.

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Adrienne Plasse, of Webster, Mass.; B. A. Rhode Island College, 1972; B. S. N. Cornell University, 1974. Maternal and Child Health.

Eugene Anthony Pometto, Jr., of Baltimore, Md.; B. A. The Johns Hopkins University, 1972; M. A. West Georgia College, 1974. Health Services Administration.

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## MASTERS OF ARTS IN INTERNATIONAL AFFAIRS

### in The School of Advanced International Studies

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## in The School of Advanced International Studies

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Jon Scott Becker, of Melrose Park, Pa., B. A. Brandeis University, 1976.

Stephanie Jane Benefield, of Annandale, Va., B. A. International Christian University (Tokyo), 1975.

Ray Frank Bessette, of Arlington, Va., B. S. F. S. Georgetown University, 1969.

John Fayden Bohan, of Brevard, N. C., B. A. University of North Carolina, Chapel Hill, 1976.

Jeffrey Ernst Thompson Bohm, of Huntington Woods, Mich., B. A. Haverford College, 1976.

Yavuz Boray, of Istanbul, Turkey, Lic. Grad. University of Istanbul, 1975.

Janet Lynn Boudris, of Baltimore, Md., B. A. University of Maryland, Catonsville, 1976.

Alan Steele Bowser, of South Orange, N. J., B. A. Princeton University, 1974.

Janis Audrey Callison, of Sioux Falls, S. D., B. A. Morningside College, 1975.

Paul Huen Chan, of Hong Kong, B. A. State University of New York at Albany, 1975.

Michael Wesley Chinworth, of Fort Worth, Texas, B. A. University of Notre Dame, 1974.

Jan Alexandra Cioci, of Chevy Chase, Md., B. A. Barnard College, 1975.

Lauren Ellen Cooper, of Albert Lea, Minn., B. A. University of Pennsylvania, 1974.

Robert Ernest Cox, of Shawnee Mission, Kans., B. A. Wesleyan University, 1976.

Edward Thatcher Crook, of Westtown, Pa., B. A. Ohio Wesleyan University, 1976.

Christopher Jan Danielewski, of Provo, Utah, B. A. The Johns Hopkins University, 1977.

Michelle Pam Danoff, of Englewood, N. J., B. A. The Johns Hopkins University, 1976.

John Robert Davidson, of Houston, Texas, B. A. The George Washington University, 1976.

Michael Gary Deal, of Madison, Tenn., B.A. Middle Tennessee State University, 1976.

Michel William Diviney, of Washington, D. C., B. A. University of Missouri, 1969; J. D. University of Iowa, 1972.

Gregory Lee Doublestein, of Wyoming, Mich., B. A. Albion College, 1974.

Johannes Werner Druml, of Innsbruck, Austria, Dr. Law University of Innsbruck, 1975.

Marcia A. Duncan, of Roxbury, Mass., B. A. Radcliffe College, 1974.

Darrell Kevin Ellison, of New York, N. Y., B. A. Syracuse University, 1975.

Christine Maria Ercolessi, of Bologna, Italy, Laurea University of Bologna, 1976.

Robert Carl Fisher, of Newburgh, N. Y., B. A. Colgate University, 1976.

Alan George Friedman, of New York, N. Y., B. A. New York University, 1976.

David Marc Friedman, of Reading, Penna., B. A. George Washington University, 1976.

Jean Francois N'Dinga Gaba, of Bangui, Central African Republic, B. A. University of Puget Sound, 1972; M. Ed., 1975.

Frank Joseph Gaffney, Jr., of Pittsburgh, Penna., B. S. F. S. Georgetown University, 1975.

Jennifer Sims Gallucci, of Riverside, Conn., B. A. Oberlin College, 1975.

Michael Perry Galbraith, of Columbus, Ohio, B. A. Oberlin College, 1974.

Brenda Jane Gannam, of Savannah, Ga., B. A. University of Georgia, 1972.

Elizabeth Jean Gerber, of Portland, Oreg., B. A. Portland State University, 1969.

Bennet Roger Goldberg, of Baltimore, Md., B. A. George Washington University, 1976.

Stephen Douglas Goose, of Louisville, Ky., B. A. Vanderbilt University, 1976.

Doren Roe Greenberg, of New York, N. Y.. B. A. Franklin and Marshall College, 1976.

Joseph B. Griffith, of Alexandria, Va., B. A. The Johns Hopkins University, 1978.

Claire Smith Gross, of Baltimore, Md., B. A. Princeton University, 1973.

Elizabeth Ann Gross, of Chicago, Ill., B. A. University of Illinois, 1976.

Monique Grzelak, of Pittsburgh, Penna., B. A. Hartwick College, 1976.

John Gregory Haaga, of Bethesda, Md., B. A. Oxford University, 1974.

Patricia Ann Haas, of Alexandria, Va., B. A. Mary Washington College, University of Virginia, 1975.

Behrooz Hadavi, of Tehran, Iran, B. A. National University of Iran, 1973.

David L. Haettenschwiller, of Buffalo, N. Y., B. A. Brown University, 1976.

Majorie Sue Halpern, of Jackson Heights, N. Y., B. A. Smith College, 1976.

Eric Max Hameister, of Bashaw, Alberta, Canada, B. A. University of Alberta, 1970.

Linda Christine Hammer, of Spanaway, Wash., B. A. Pacific Lutheran University, 1972.

John Bunyan Harris, III, of Greenwood, S. C., B. A. Clemson University, 1974.

Stephen J. Harvey, of Bloomington, Minn., B. A. University of Minnesota, 1976.

Steven Walter Henderson, of Des Plaines, Ill., B. A. Wheaton College, 1976.

Wudy C. W. Heung, of Hong Kong, B. A. West Liberty State College, 1975.

Linda Amalia Higueras, of San Francisco, Calif., B. A. Lone Mountain College, 1976.

Joen Hilfer, of Los Angeles, Calif., B. A. University of California, Los Angeles, 1976.

Eleanor Cynthia Hodges, of Wilmington, Dela., B. A. University of Delaware, 1975.

Bruce Frederick Edward Jenks, of Geneva, Switzerland, B. A. Cambridge University, 1976.

Carol Beth Johnson, of Grand Forks, N. D., B. A. Brown University, 1976.

Philippe Paul Kahn, of St. Cloud, France, Licence University of Paris, 1973; Diploma Institut d'Etudes Politiques, 1975.

Jon Raymund Kathe, of Tokyo, Japan, B. A. Boston College, 1975.

Mark Norman Katz, of London, England, B. A. University of California, Riverside, 1976.

Abigail Faith Kaufman, of Chevy Chase, Md., B. A. University of Maryland, 1976.

Kim Allyson Kavrell, of San Rafael, Calif., B. A. University of California, Davis, 1975.

Shelly Kessler, of Arlington, Va., B. A. Brown University, 1976.

Scott Frederic Kilner, of Palo Alto, Calif., B. A. Stanford University, 1974.

Christine Elizabeth Kimes, of Sherman, Texas, B. A. Austin College, 1975.

Tsukasa Kimoto, of Yokohama, Japan, B. A. Drew University, 1976.

Walter Francis Kitchenman, of Stony Brook, N. Y., B. A. George Washington University, 1976.

Bonnie Jean Knoll, of Ephrata, Penna., B. A. University of Delaware, 1975.

John Edward Kocjan, of Bronx, N.Y., B. A. Fordham University, 1976.

Mark Charles Koenig, of Columbus, Ohio, B. A. Ohio State University, 1976.

Craig William Kolkman, of Washington, D. C., B. A. Vassar College, 1976.

Ingrid Mall Kollist, of Brooklyn, N.Y., B. A. Vassar College, 1976.

Arthur Joseph Lafave III, of Shaker Heights, Ohio, B. A. Williams College, 1976.

Ellen Beth Laipson, of Washington, D. C., B. A. Cornell University, 1973.

William Jeffrey Lawrence, of St. James, N. Y., B. A. The Johns Hopkins University, 1977.

Karin Lee Lawson, of Leesburg, Va., B. A. Sweet Briar College, 1974.

Jeffrey Lawrence Lee, of Washington, D. C., B. A. Oberlin College, 1974; M. A. University of Michigan, 1975.

Harriet Lynne Leibowitz, of Philadelphia, Penna., B. A. Franklin and Marshall College, 1976.

Ellen Crosby Lessard, of Washington, D. C., B. A. The Catholic University of America, 1975.

Veronica Marie Lewis, of Verona, N. J., B. A. Tufts University, 1973.

Cynthia May Lifson, of Rydal, Penna., B. A. Smith College, 1976.

Laura Jean Lindskog, of San Rafael, Calif., B. A. San Francisco State University, 1975.

Craig Richard Lingel, of Lafayette, Calif., B. A. University of California, Santa Cruz, 1976.

Gail Jean Littlefield, of Goshen, N. Y., B. A. Middlebury College, 1973; M. A. T. Colgate University, 1974.

Gerardo Llorente-Escudero, of Mexico City, Mexico, B. A. National University of Mexico, 1973.

William Ernest Lucas, of Greensboro, N. C., B. A. University of North Carolina, 1973.

Robert Michael Makhoul, of Flint, Mich., B. A. University of Michigan, 1976.

Raphael Thomas Marrone, of Dearborn, Mich., B. A. University of Detroit, 1971.

Paul Mazur, of Pittsburgh, Penna., B. A. University of Pittsburgh, 1976.

Emmanuel Ebot Mbi, of Suitland, Md., B. A. Southwestern-at-Memphis, 1976.

Curtis Neil Meeder, of South Lyon, Mich., B. A. Michigan State University, 1976.

Darrell Harry Mensel, of Kensington, Md., B.S. (Political Science) University of Utah, 1974, B. S. (Mass Communications) 1975.

Steffi Esther Meyer, of Spring Valley, N. Y., B. A. Barnard College, 1974.

Erik Paul Molander, of Homewood, Ill., B. A. The Johns Hopkins University, 1978.

David John Morse, of Slingerlands, N. Y., B. A. Hamilton College, 1974.

Shakeel Mozaffar, of Arlington, Va., B. A. United States International University, 1975.

Clare Marie Muñana, of Madrid, Spain, B. A. Boston College, 1976.

Edward Underhill Murphy, of Evansville, Ind., B. A. Claremont Men's College, 1975.

Jolyon Arthur Naegele, of New York, N. Y., B. A. City College of New York, 1976.

Eliane Najros, of Noisy-le-Sec, France, Licence University of Paris Nord, 1973.

Meenakshi Narula, of Washington, D. C., B. A. Simmons College, 1974.

Sachiko Natsume, of Tokyo, Japan, B. A. University of Sacred Heart (Tokyo), 1967.

Tawhid Nawaz, of Dacca, Bangladesh, B. A. Dacca University, 1976.

Albert Ndele, of Washington, D. C., Licence University of Louvain, 1960; M. A. Yale University, 1975; Master of International Public Policy, School of Advanced International Studies, The Johns Hopkins University, 1977.

James D. Nickolas, of Falls Church, Va., B. A. State University of New York at Stony Brook, 1976.

Irene Angela Nicolich, of Astoria, N. Y., B. A. College of the Holy Cross, 1976.

Mark Harold Nordenson, of Noroton, Conn., B. A. Oberlin College, 1975.

Dominique Notari, of Monte Carlo, Monaco, Diplome Institut d'Etudes Politiques, 1976.

Chigbo Godson Ofong, of Enugu, Nigeria, B. A. State University of New York, Buffalo, 1976.

Anthony Stephen Guy Pearce-Batten, of Baltimore, Md., B. A. University of Chicago, 1973.

Christopher Stuart Pfaff, of Wilmette, Ill., B. A. Dartmouth College, 1974.

Richard Jay Pollan, of Duluth, Minn., B. A. Antioch College, 1975.

Marie Elaine Powell, of Waynesburg, Penna., B. A. Denison University, 1976.

Gregory Vincent Powell, of Chevy Chase, Md., B. A. Providence College, 1969; J. D. Duke University, 1974.

Lorelei Annabelle Pritchard, of Edmonton, Alberta, Canada, B. A. Lenoir Rhyne College, 1976.

Phuong-Dung Quach, of St. Cloud, France, Diploma Institut d'Etudes Politiques, 1975.

Francine Radler, of West Hartford, Conn., B. A. Princeton University, 1975.

Robert Cass Rarog, of Detroit, Mich., B. S. F. S. Georgetown University, 1976.

Daniel Jackson Reed III, of Seattle, Wash., B. A. University of Washington, 1974.

Evan Dahlstrom Robinson, of Arlington, Va., B. A. University of Virginia, 1972.

William Lawrence Ross, of Chatham, N. J., B. A. The American University, 1976.

Bahram Salimi, of Tehran, Iran, B. A. Oakland University, 1974.

Peter Satris, of Van Nuys, Calif., B. A. University of California, Berkeley, 1975.

Madeline Catherine Savage, of Acton, Mass., B. A. St. Mary's College, 1975.

Peter Paul Saverys, of Deinze, Belgium, Licentiaat in Law University of Ghent, 1976.

Elysa Lynn Scharf, of Union, N. J., B. A. Princeton University, 1976.

Johann Wilhelm Scheidt, of Kettwig, Germany, University of Sussex.

George John Schott, of Elizabeth, N. J., B. A. The Johns Hopkins University, 1977.

Christopher Joseph Sigur, of Kensington, Md., B. S. F. S. Georgetown University, 1973.

Angus Taylor Simmons, of Bethesda, Md., B. A. Wadham College, Oxford University, 1974.

Emery Simon, of Elmhurst, N. Y., B. A. Queens College, City University of New York, 1976.

Barbara Jean Smith, of Long Beach, Calif., B. A. Smith College, 1973.

Ann Lynn Sokoloff, of Silver Spring, Md., B. A. University of Chicago, 1976.

Joel Jeffery Sokolsky, of Downsview, Ontario, Canada, B. A. University of Toronto, 1972.

James Clyde Sperling, of Lodi, Calif., B. A. University of California, Santa Barbara, 1974.

Philip Nathan Steffen, of Elgin, Ill., B. A. Illinois State University, 1973.

Ercilia Antonia Nofal Suarez, of Mendoza, Argentina, B. A. University of Maryland, Baltimore County, 1975.

Gabriel Szekely, of Mexico City, Mexico, B. A. National University of Mexico, 1975; M. A. Tufts University, 1976.

Howard Jeffrey Teicher, of St. Louis, Mo., B. A. Boston University, 1976.

Roberto Velazquez-Huber, of Mexico City, Mexico, B. A. National University of Mexico, 1971.

Eleftherios Harry Vidas, of Phoenix, Ariz., B. A. Dartmouth College, 1976.

Peter Joseph Walsh, of Newport, R. I., B. A. Santa Clara University, 1970.

John Philip West, of San Francisco, Calif., B. A. San Francisco State University, 1975.

Benjamin Charles Weston, of North Canton, Ohio, B. A. Miami University, 1976.

Edward Forrest Wiener, of Baltimore, Md., B. A. The Johns Hopkins University, 1977.

James Creighton Williams, of Concord, Calif., B. A. Stanford University, 1967.

Edward Chamberlin Wilson, of Glenside, Penna., B. A. The Johns Hopkins University, 1976.

Barry Russell Wolff, of Jamaica, N. Y., B. A. Northwestern University, 1975; M. A. Columbia University, 1976.

Daniel Waldon Wright III, of Savannah, Ga., B.A. Carleton College, 1973.

Jordan Keith Young, of St. Petersburg Beach, Fla., B. A. New College, 1976.

Marie Claire Zehngebot, of New York, N. Y., B. A. Middlebury College, 1976.

Douglas Guy Ziurys, of Potomac, Md., B. A. Duke University, 1975.

## MASTERS OF SCIENCE

in The Faculty of Medicine

PETER MICHAEL KUZMAK, of Baltimore, Md., B. S. Clarkson College of Technology, 1969. Biomedical Engineering.

*An Interactive Minicomputer System for a Neuroendocrine Laboratory.*

## MASTERS OF SCIENCE IN CLINICAL ENGINEERING

in The Faculty of Medicine

MELVIN FRANKLIN HOUSTON, of Baltimore, Md., B. S. E. Johns Hopkins University, 1970. Biomedical Engineering.

*A Data Entry Device for Reading Replicate Plates in the Clinical Microbiology Laboratory.*

STEPHEN SEAN MACK, of Baltimore, Md., B. S. M. E. University of Maryland, 1973. Biomedical Engineering.

*Bidirectional Thermistor Flow Sensor for Continuously Monitoring Gas Flow in Controlled or Assisted Ventilator Circuits.*

ALAN TOWNSEND PEASE, of Crofton, Md., A. B. Harvard College, 1969. Biomedical Engineering.

*A System for Improving Control of the Performance of Radiologic Equipment.*

JAMES W. WAGNER, of Annapolis, Md., B. S. E. E. University of Delaware, 1975. Biomedical Engineering.

*Urodynamics Laboratory.*

## MASTERS OF ARTS

in The Faculty of Medicine

MICHAEL WYNNE CARROLL, of Concord, N. C., B.A. Western Maryland College, 1975. Art as Applied to Medicine.

*The Vocal Apparatus of the Big Brown Bat,* Eptesicus fuscus.

WALLACE BRUCE FYE, of Baltimore, Md., B. A. Johns Hopkins University, 1968; M. D., 1972. History of Medicine.

*Henry Pickering Bowditch and the Professionalization of Physiology in America.*

JEAN M. KANSKI, of Indian Orchard, Ma., B. A. Newton College of the Sacred Heart, 1975. Art as Applied to Medicine.

*Basic Principles of the Etiology and Surgical Repair of Hypospadias.*

MARVIN ALEXANDER MEREDITH, of Silver Spring, Md., B. A. Wake Forest University, 1975. Art as Applied to Medicine.

*A Proposed Pathogenesis for Double-Inlet Left Ventricle and Corrected Transposition Malformation Complexes in Relation to the Normal Rotation of the Heart Tube.*

LISA ANN PALLULAT, of La Mesa, Calif., A. B. San Diego State University, 1975. Art as Applied to Medicine.

*The Inframammary Crease: Anatomy and Clinical Significance.*

WENDY K. SARAFYAN, of New Orleans, La., B. A. Newcomb College of Tulane University, 1976. Art as Applied to Medicine.

*The Female Lower Urogenital System: Normal Embryology and Urogenital Sinus Abnormalities.*

## MASTERS OF MUSIC

in The Peabody Conservatory of Music

Charles Abramovic, Jr., of Pennsylvania, B. M. Curtis Institute of Music, 1976. Piano.

Adria Leslie Benjamin, of New York, B.M. Eastman School of Music, 1975. Viola.

Gilbert Brown Benson, of Maryland, B. M. Peabody Conservatory of Music, 1975. Composition.

Elena C. Clancy, of New York, B. A. Cornell University, 1976. Voice.

Judith Lynn Coker, of California, B. A. San Diego State University, 1971. Violin.

Thuy Quan Do, of Florida, B. M. Stetson University, 1974. Violin.

William Charles Evans, of Pennsylvania, B. S. Clarion State College, 1976. Voice.

Edward Ross Goldstein, of Maryland, B. M. Peabody Conservatory of Music, 1976. Tuba.

William Allen Good, of Florida, B. M. Peabody Conservatory of Music, 1976. Piano.

Paul Richard Guthmuller, of New Jersey, B. A. Rutgers University, 1974. Voice.

Terrie Anne Hanex, of Virginia, B. M. Peabody Conservatory of Music, 1975. Piano.

Diane Marie Huntzicker, of California, B. M. Willamette University, 1976. Piano.

Ellen Louise Knobloch, of Connecticut, B. A. Duke University, 1975; M. M. Peabody Conservatory of Music, 1977. Organ.

Zenovia Vera Kushpeta, of Canada, B. M. University of Toronto, 1975. Piano.

Philip Kuttner, of California, B. A. Harvard University, 1975. Piano.

Barbara McKenzie-Ware, of North Carolina, B. M. Peabody Conservatory of Music, 1976. Piano.

Elizabeth Louise Malin, of Maryland, B. M. Peabody Conservatory of Music. Voice.

Abram Marc Minzer, of New York, B. M. Hartt College of Music (Univ. of Hartford), 1976. Piano.

David Edward Neal, of New York, B. A. Cornell University, 1976. Voice.

Nancy Marie Nyland, of Wisconsin, B. M. Oberlin College, 1976. Piano.

Robert Christopher Palmer, of Minnesota, B. A. St. John's University, 1976. Piano.

Christine Stevenson Peck, of Maryland, B. A. Sarah Lawrence College, 1975. Voice.

Edward L. Polochick, of Pennsylvania, B. A. Swarthmore College, 1974. Choral Conducting and Piano.

David Paul Richter, of New York, B. A. Yale University, 1975. Piano.

Robert B. Rowland, of Pennsylvania, B. M. Eastman School of Music, 1975. Voice.

Terry Maxine Shuch, of Florida, B. M. Peabody Conservatory of Music, 1976. Bassoon.

David Ernest Teie, of Minnesota, B. M. Peabody Conservatory of Music, 1977. Violoncello.

Phillip Eugene Thomas, of Florida, B. A. Lee College, 1976. Piano.

Gregory Thomas Thompson, of South Carolina, B. A. Limestone College, 1976. Piano.

Marilyn Eileen Thornton, of Washington, D. C., B. M. Howard University, 1975. Violin.

Dorothy L. Uyboco, of The Philippines, B. M. University of Santo Tomas, 1975. Piano.

Chiara Pina Walsh, of Washington, D. C., B. M. Peabody Conservatory of Music, 1976. Piano.

Jo-Anne Wanamaker, of Canada, Bachelor of Religious Education, Winnipeg Bible College, 1975; B. A. Tabor College, 1976. Voice.

Kathleen Miyoko Weaverling, of California, B. M. University of Pacific, 1975. Piano.

Aileen Ann Whalen, of Pennsylvania, B. M. Peabody Conservatory of Music, 1977. Piano.

Marlene F. Williams, of New York, B. M. Rosary Hill College, 1975. Voice.

Hugh MacPherson Wolff, of Maryland, B. A. Harvard University, 1975; M. M. Peabody Conservatory of Music (Piano), 1977. Instrumental Conducting.

Susan Fletcher Wright, of Michigan, B. A. Kalamazoo College, 1973. Voice.

Shantakumarie Yorke, of Sri Lanka, B. M. Peabody Conservatory of Music, 1976. Piano.

## MASTERS OF SCIENCE IN ENGINEERING

### in The Faculty of Engineering

Arnold Francis Baer, of Baltimore, Md., B. S. Virginia Polytechnic Institute, 1969. Environmental Engineering.

*Alternative Waste-water Disposal Systems for the Rural Home.*

David Bigman, of Tel-Aviv, Israel, B. A. Hebrew University of Jerusalem, 1973. Environmental Engineering.

*Welfare Considerations in Public Facility Location Models.*

John Stephen Burke, of Everett, Mass., B. A. Harvard University, 1973. Mathematical Sciences.

Robert Jousseaume Delatour, Jr., of Berkeley Heights, N. J., B. S. St. Lawrence University, 1975. Environmental Engineering.

*△COD as a Replacement for BOD: An Evaluation.*

Borislav Boro Djordjevic, of Brežice, Yugoslavia, B. S. College of William and Mary in Virginia, 1973. Mechanics and Materials Science.

*Triboluminescence.*

Rita Ann Folan, of Cambridge, Mass. B. A. Boston College, 1974. Mathematical Sciences.

John Edward Hesson, of Baltimore, Md., B. S. United States Military Academy, 1969. Geography.

*Prediction of Non-point Pollution of Streams and Rivers.*

Peter Koziar, of Fairfield, N. J., B. E. S. The Johns Hopkins University, 1978. Electrical Engineering.

Kenneth Alfred Leeser, of Closter, N. J., B. E. S. The Johns Hopkins University, 1977. Mechanics and Materials Science.

*A Dynamic Analysis of Lattice Rotation During Tensile Testing of Aluminum Single Crystals.*

Armand Cecil Lepage, of Colchester, Vt., B. A. Marquette University, 1964. Environmental Engineering.

*Soil Erosion and Agricultural Nonpoint Source Pollution: Two Problems, One Solution.*

Nezameddin Mahdavi-Amiri, of Shahi, Iran, B. S. Louisiana State University and Agricultural and Mechanical College, 1973; M. S. Pennsylvania State University, 1976. Mathematical Sciences.

Arthur Edwin McGarity, of Chicago, Ill., B. S. Trinity University, 1973. Electrical Engineering.

Louis Joseph Podrazik, of Baltimore, Md., B. E. S. The Johns Hopkins University, 1976. Electrical Engineering.

Stephen Edward Roesch, of Timonium, Md., B. E. S. The Johns Hopkins University, 1976. Environmental Engineering.

*Streamflow Simulation Models for the Potomac River.*

Venson Ming-Heng Shaw, of Taiwan, Republic of China, B. S. National Chiao Tung University, 1974. Electrical Engineering.

Charles Richard Sirian, of Baltimore, Md., B. E. S. The Johns Hopkins University, 1976. Mechanics and Materials Science.

*The Room Temperature Decompoition of an Amorphous Gold-Silicon Eutectic Alloy Rapidly Quenched from the Melt.*

# MASTERS OF ARTS

## in The Faculty of Arts and Sciences

Steven Lynn Allen, of Craig, Colo., B. S. Colorado School of Mines, 1975. Physics.

Ida Louise Altman, of Washington, D. C., B. A. University of Michigan, 1971; M. A. University of Texas, 1972. History.

Bipin Aurora, of New Delhi, India, B.S. University of Maryland, 1973. English.

Bakul Chattopadhyay Banerjee, of Meerut, U. P., India, B. A. University of Calcutta, 1967; M. S. Indian Institute of Technology, Kanpur, 1972. Earth and Planetary Sciences.

Luciano Bardi, of Firenze, Italy, Laurea in Scienze Politiche, University di Firenze, Italy, 1975. Political Science.

*Italy's Foreign Policy and the PCI.*

Renate Wessendorf Bartels, of Baltimore, Md., B. A. The Johns Hopkins University, 1976. German.

Judith Gail Baumel, of Bronx, N. Y., B. A. Radcliffe College, 1977. Writing Seminars.

*Messages from the Interior.*

Betsy Jane Becker, of Elkridge, Md., B. A. The Johns Hopkins University, 1978. Psychology.

Ronald Edmund Bell, of Pittsfield, Mass., B. S. Rensselaer Polytechnic Institute, 1975. Physics.

Deborah Darlene Bennett, of Cleveland, Ohio. History.

Thomas Daniel Bernhard, of Allentown, Pa., B. A. Cornell University, 1975. Philosophy.

Mark Harold Bradshaw, of Peoria, Ill., B. S. Bradley University, 1973. Psychology.

Thomas Edward Brennan, of Washington, D. C., B. A. Catholic University of America, 1975. History.

June Kaori Bronfenbrenner, of Durham, N. C., B. A. New College, 1975. Chemistry.

Lynne Patricia Brown, of Crestwood, N. Y., B. A. Smith College, 1974. Political Science.

*Representation in Perspective: History, Theory and the Analysis of Congress.*

John Paul Bruno, of Pittsburgh, Pa., B. S. University of Pittsburgh, 1975. Psychology.

Kaye Ruth Burnett, of Auckland, New Zealand. Earth and Planetary Sciences.

*Behaviour of Internal Waves in a Stratified Tank: An Experiment Showing the Existence of Leaky Low Mode Waves.*

Leo William Buss, of Alexandria, Va., B. A. The Johns Hopkins University, 1975. Earth and Planetary Sciences.

Zakia Wanis Buzaik, of Benghazi, Libya, B. Sc. University of Libya, 1965. Chemistry.

David Lee Cahan, of Chicago, Ill., B. A. University of California, Berkeley, 1969. History of Science.

Heather Cook Callow, of Baltimore, Md., B. A. University of Michigan, 1972; M. A., 1974. English.

Thomas William Callow, of Detroit, Mich., B. A. University of Michigan, Ann Arbor, 1972; M. T. S. Gordon-Conwell Theological Seminary, 1976. Near Eastern Studies.

Carol Frances Campbell, of New York, N. Y. Writing Seminars.

*Without Names.*

Constance Rose Caplan, of Philadelphia, Pa., B. A. Goucher College, 1957. Political Science.

*The Distribution of Influence in the Decision-Making System of Baltimore.*

Randall William Cartwright, of Detroit, Mich., B. S. University of Michigan, 1972. Earth and Planetary Sciences.

*Some Experiments in Three-Layer Harbor Circulations.*

Nilgun Kadriye Cerrahoglu, of Istanbul, Turkey, B. Sc. Middle East Technical University, Ankara, 1975. Political Economy.

Chi-farn Chen, of Taipei, Taiwan, B. S. National Central University, 1974. Earth and Planetary Sciences.

Eric Cheyfitz, of Toledo, Ohio, M. A. The Johns Hopkins University, 1974. Humanities Center.

Marjorie Jane Clarke, of Miami, Fla., B. A. Smith College, 1975. Geography.

*An Economic and Environmental Assessment of the Florida Sugarcane Industry.*

Sanford Jay Cohn, of Baltimore, Md., B. A. The Johns Hopkins University, 1967; M. Ed., 1976. Psychology.

George Howe Colt, of El Paso, Texas, B. A. Harvard College, 1976. Writing Seminars.
*Birthmark.*

Susan Conwell, of New York, N. Y. History.
*Political Organization and Economic Space: Futa Jallon, 1800-80.*

Stephen John Cross, of Marlow, Buckinghamshire, England, B. A. Fitzwilliam College, University of Cambridge, 1974. History of Science.
*John Hunter's Theories of Life, Organization, and Disease: A Conceptual Study.*

William Leamon Cummings, of Springfield, Ill., B. A. University of Chicago, 1976. History.

Ann Carson Daly, of Washington, D. C., B. A. Mount Holyoke College, 1975. English.

Baltazar Manuel Romao de Castro, of Porto, Portugal, Certificate, University of Porto, Portugal, 1974. Chemistry.

Charles Frederick DeKay, of Council Bluffs, Iowa, B. A. University of Washington, 1972. Political Economy.

Fernando De Mateo, of Mexico City, Mexico, B. A. National School of Economics, 1973. Political Economy.

John Philip Drury, of Cambridge, Md., B. A. State University of New York, Stony Brook, 1976. Writing Seminars.
*Decoys.*

Devon Miller Duggan, of San Antonio, Texas, Writing Seminars.
*The Work of the Hands.*

Paul Robert Eberle, of Plainview, N. Y., B. A. The Johns Hopkins University, 1977. German.

Ann Rochelle Eisenberg, of Teaneck, N. J., B. A. The Johns Hopkins University, 1978. Psychology.

Richard Allan Eisenberg, of Long Island, N. Y., Earth and Planetary Sciences.

William David Ellis, of Baltimore, Md., B. A. The Johns Hopkins University, 1969. Chemistry.

Shu-Cherng Fang, of Taiwan, Republic of China, B. S. National Tsing Hua University, 1974. Mathematics.

Karen June Feinstein, of Blue Point, N. Y., B. A. The Johns Hopkins University, 1978. Psychology.

David William Fenza, of Chester, Pa., B. A. Colorado College, 1977. Writing Seminars.
*First Passages.*

Reinhard Walter Fürstenberg, of Berlin, Germany, Diploma in Mathematics, Universitat Bielefeld, Germany, 1973. Political Economy.
*A Comparative Analysis of Determinants of West German and Japanese Engineering Trade Patterns.*

John Paul Gilman, of New Canaan, Conn., B.A. The Johns Hopkins University, 1974. Earth and Planetary Sciences.

David Harold Glassberg, of Philadelphia, Pa., History.

John Brendan Godfrey, of Detroit, Mich., B. A. University of Toronto, 1973. History.

Deborah Goldberg, of Cambridge, Mass., B. A. Washington University, 1976. Philosophy.

Nathan Carliner Goldman, of Charleston, S. C., B. A. University of South Carolina, 1972; J. D. Duke University School of Law, 1975. Political Science.
*Opposition to the Mexican War.*

William Charles Gonch, of New Brunswick, N. J., B. A. Washington and Lee University, 1976. German.

Matthew Richard Graham, of Liberty, N. Y., A. A. Sullivan County Community College, 1974; B. A. State University of New York, Harpur College, 1976. Writing Seminars.
*The Difference Between Distance and the Long Unravelling.*

Louis Theodore Grant, of Baltimore, Md., B. A. University of Maryland, 1967; M. L. A. The Johns Hopkins University, 1971. Writing Seminars.
*The Way Things Work.*

Virginia Green Hall, of Cincinnati, Ohio, B. A. Princeton University, 1973. History of Art.

Timothy John Hallman, of Milford, Conn., B. S. Muhlenberg College, 1974. Physics.

Margaret Kean Harris, of Akron, Ohio, B. A. Smith College, 1975. Romance Languages.

Anne Marcia Hartman, of Brooklyn, N. Y., B. S. State University of New York at Stony Brook, 1973. Biology.

Anne Dawson Hedeman, of McDonogh, Md., B. A. Princeton University, 1974. History of Art.

Douglas Edward Henslee, of Fort Meyer, Va., B. A. University of Nebraska, 1971. Philosophy.

Peter Bolles Hirtle, of Boston, Mass., B. A. Carleton College, 1974. History.

John Russell Holland, of Baltimore, Md., B. A. University of Maryland, Baltimore County, 1976. Chemistry.

Rebecca Ann Huddleston, of Bel Air, Md., B. A. College of William and Mary, 1976. Classics.

Kathleen Ann Hugley-Cook, of Lancaster, Texas, B. A. Southern Methodist University, 1974. Romance Languages.

Dalia Judovitz, of New York, N. Y., B. A. Brandeis University, 1973. Romance Languages.

Amy Beth Kaplan, of New York, N. Y., B. A. Brandeis University, 1975. English.

Loree Jayne Keleher, of Wichita, Kans., B. A. The Johns Hopkins University, 1978. History.
*Development of the Houston Museum of Fine Arts.*

Boris Kharag, of Petropavlovsk, Kamchatka Province, U. S. S. R., Diploma, Lenin M. I. Kalinin Polytechnical Institute, 1973. Earth and Planetary Sciences.

Charlotte Ann Kinskey, of Inglewood, Calif., B. A. Carnegie-Mellon University, 1977. Writing Seminars.
*Stretch into Shadow.*

Barry Evan Kosofsky, of North Hills, N. Y., B. A. The Johns Hopkins University, 1978. Biophysics.

Mitchell Herman Koss, of Detroit, Mich., B. A. University of Michigan, 1974. Writing Seminars.
*Pursuit.*

Jenny Jine-I Kou, of Taipei, Republic of China, B. S. Taiwan Provincial College of Marine and Oceanic Technology, 1975. Earth and Planetary Sciences.

Leonard Arnold Kusnitz, of Fairfield, Conn., B. A. The Johns Hopkins University, 1978. Psychology.

Gerard Pierre Kvasnovsky, of Paris, France. Earth and Planetary Sciences.

Cora Dissette Lackey, of Washington, D. C., B. A. The Johns Hopkins University, 1978. Mathematics.

Barbara Jean Lagowski, of Adams, Mass., B. A. University of South Florida, 1977. Writing Seminars.
*Under One Roof.*

Patricia Kain Larkins, of Camden, N. J., B. A. Gettysburg College, 1967. Writing Seminars.
*Four Stories.*

Nelson Edward Laughton, of Hartland, Maine, B.S. United States Military Academy, 1968. Chemistry.

Theodore Bart Leinwand, of Paterson, N. J., B. A. Hamilton College, 1973. English.

Norbert Lempert, of Forest Hills, N. Y., B. A. Amherst College, 1976. Writing Seminars.
*Grief at Large.*

Ron Lovewell Levin, of Washington, D. C., B. A. The Johns Hopkins University, 1976. Physics.

Attilio Loiacono, of Treviso, Italy, B. A. Trinity College, Cambridge, 1976. History.
*The New York Intellectuals of the 1930s and Their Critical Vision of American Culture.*

Sonia Maasik, of Hackensack, N. J., B. A. Fairleigh Dickinson University, 1976. English.

Marc Paul Majewski, of Bayside, N. Y. Biology.

Ellen Sue Mankoff, of Newark, N. J., B. A. Reed College, 1975. English.

Silvia Marina Manno, of Rome, Italy, M. A. Yale University, 1977. Romance Languages.

David Brett Marshall, of New York, N. Y., B. A. Cornell University, 1975. Humanities Center.

Judy Ann Massare, of Rochester, N. Y., B. S. University of Rochester, 1973. Earth and Planetary Sciences.

Katharine Eisaman Maus, of Rochester, N. Y., B. A. Cornell University, 1976. English.

Kirk Charles McAlexander, of Hoisington, Kans., B. A. University of Kansas, 1972. English.

Edward Kirby McIntyre, Jr., of New Bedford, Mass., B. A. College of the Holy Cross, 1975. Physics.

Lionel Andrew McKenzie, of Sea Lake, Australia, B. A. University of Melbourne, 1969. History.

Margaret Joan McMahon, of Norwalk, Conn., B. A. College of New Rochelle, 1952; M. T. S. Wesley Theological Seminary, 1974. Near Eastern Studies.

James Francis McMenamin, of York, Pa., B. A. Washington and Lee University, 1976. Writing Seminars.
*A Long Way Down.*

Albert Stanley Meiburg, of Louisville, Ky., B. A. Wake Forest University, 1975. Political Science.
*Advice and Dissent: The Morgenthau Plan and Multiple Advocacy.*

Lois Cynthia Metzger, of Jamaica, Queens, N. Y., B. A. State University of New York at Buffalo, 1976. Writing Seminars.
*The Sir Flint Stories.*

Elise Ann Meyer, of Norwich, Conn., B. A. Brown University, 1976. History of Art.

Frank Lubbock Miller IV, of Darien, Conn., B. A. Pitzer College, 1975. History.

Stuart August Moller, of El Paso, Texas, B. A. Colgate University, 1974; M. S. University of North Carolina at Chapel Hill, 1976. Earth and Planetary Sciences.

Cameron Phelps Munter, of Walnut Creek, Calif., B. A. Cornell University, 1976. History.

Gregory Leo Murphy, of Maplewood, N. J., B. A. The Johns Hopkins University, 1978. Psychology.

Timothy Conway Murray, of Colorado Springs, Colo., B.A. University of California, Berkeley, 1974; M. A. University of Chicago, 1975. Humanities Center.

James David Myers, of St. Albans, Vt., B. S. University of Rhode Island, 1973. Earth and Planetary Sciences.

Reid Nagle, of Boston, Mass., B. A. Georgetown University, 1974. Political Economy.

Sara Tilghman Nalle, of Riverside, Calif., B. A. Bryn Mawr College, 1975. History.

Alan Scott Neese, of Rochester, N. Y., B. S. Washington and Lee University, 1972. Chemistry.

Carol Frances Newell, of Los Angeles, Calif., B.A. Empire State College, 1975. Writing Seminars.
*Dreams.*

Nancy Noechel, of Washington, D. C., B. A. Duke University, 1975. English.

Jane Cleland O'Mara, of Baltimore, Md., B. A. Vanderbilt University, 1970; M. L. A. The Johns Hopkins University, 1975. History of Art.

Kathleen O'Neill, of San Antonio, Texas. Earth and Planetary Sciences.

Robert Jo Page, of Spartanburg, S. C., B. A. Clemson Agricultural College, 1965; M. Div. Southeastern Baptist Theological Seminary, 1970. Near Eastern Studies.

Brien Joseph Partika, of Plainfield, N. J., B. A. Alfred University, 1976. Earth and Planetary Sciences.

Matthew Regis Peroutka, of Baltimore, Md., B. A. The Johns Hopkins University, 1978. Earth and Planetary Sciences.

Mu-Chou Poo, of Taichung, Taiwan, B.A. National Taiwan University, 1975. Near Eastern Studies.

Richard Stanley Potember, of Milton, Mass., B. S. Merrimack College, 1975. Chemistry.

Stephen Qualiana, of Lockport, N. Y., B. A. State University of New York at Buffalo, 1977. Writing Seminars.
*A Climate of Indirection.*

Robert McElwee Rainey, of Anderson, S. C., B.S. Washington and Lee University, 1974. Earth and Planetary Sciences.

Ronald Edward Rector, of Washington, D. C. Writing Seminars.
*The Weather Gallery.*

Benjamin James Reynolds, of Durham, N. C., B. A. Duke University, 1974. Writing Seminars.
*Out in the Streets.*

Liz Meg Rosenberg, of Glen Cove, N. Y., B. A. Bennington College, 1976. Writing Seminars.
*In the Eighth Generation.*

Josephine Edwina Louise Rosenblum, of Queens, N. Y., B. A. York College of the City University of New York, 1976. Philosophy.

Hal Eugene Rowland, of Reno, Nev. English.
*Seint Julian he was in his Contree: The Franklin's Purveyaunce.*

Deborah Rutledge, of Severna Park, Md., B. S. College of William and Mary in Virginia, 1975. Environmental Engineering.
*Nutrient Limitation of Growth Rates.*

Timothy Dean Sahms, of Glenside, Pa., B. A. The Johns Hopkins University, 1978. Psychology.

Daniel Schenker, of Baltimore, Md. English.

Donald Ellis Secreast, of Lenoir, N. C., B. A. Appalachian State University, 1972; M. A., 1975. Writing Seminars.
*Anatomies*

Don Howard Sheldon, of Bessemer, Mich. History.
*From Progressive Society to Liberal State: Baltimore as a Case Study.*

Edward Jesse Shephard, Jr., of Syracuse, N. Y., B. A. Cornell University, 1976. History.

Claudia Winn Sieber, of Corsicana, Texas, B. A. Baylor University, 1962. History.

Richard Stuart Simon, of New Rochelle, N. Y., B. A. The Johns Hopkins University, 1978. History.
*Serfs, Slaves, and Steamboats.*

Ellen Singer, of Baltimore, Md., B. A. The Johns Hopkins University, 1977. Geography.
*An Assessment of the Impacts of Various New Technologies in the New York Electricity Generation Sector.*

Donald Skiba, of Newark, N. J., B. A. University of Vermont, 1975. Earth and Planetary Sciences.

Lisa Anne Skumatz, of Fort Bragg, N. C., B. A. University of Wisconsin-Madison, 1975. Political Economy.

Jordan Frederick Smith, of Rochester, N. Y., B. A. Empire State College, 1977. Writing Seminars.
*Sugar in the Gourd.*

Daniel Snydacker, Jr., of Chicago, Ill., B. A. Oberlin College, 1975. History.

Carmen Patricia Solorzano, of Bangor, Maine, B. A. The Johns Hopkins University, 1976. Chemistry.

George Donald Spencer, of Chicago, Ill., B.S. Massachusetts Institute of Technology, 1951. Mathematics.

Deborah Anne Spratt, of Rochester, N. Y., B. S. University of Rochester, 1976. Earth and Planetary Sciences.

Bradley Richard Stark, of Newark, Del., B. A. The Johns Hopkins University, 1978. Humanities Center.

Marc William Steinberg, of Pittsburgh, Pa., B. A. The Johns Hopkins University, 1978. History.
*The Evangelical Family in Nineteenth-Century England.*

Katherine Bassett Stern, of New York, N. Y., B. A. Mount Holyoke College, 1974. History.

Oliver Theodore Strand, of Kettering, Ohio, B. S. Ohio University, 1974. Physics.

Ellen Kay Sussman, of Trenton, N. J., B. A. Tufts University, 1976. Writing Seminars.
*Half Sister and Other Stories.*

Diane Meredith Sydenham, of Geelong, Victoria, Australia, B. A. La Trobe University, Australia, 1973. History.

William Walter Taschek, of Albuquerque, N. M., B. A. Reed College, 1976. Philosophy.

Thomas Ramsay Taylor, Jr., of Baltimore, Md. English.

Linda Ann Teleshefsky, of Clark, N. J., B. A. Drew University, 1975. Chemistry.

George Nicholas Terzis, of Pittsburgh, Pa., B. A. Duquesne University, 1973. Philosophy.

Fredrika Joanna Teute, of Rochester, N. Y., B. A. Radcliffe College, 1969. History.

Howard Crandall Tharsing, of Oakland, Calif., B. A. University of California, Berkeley, 1975. English.

Marlin Wayne Thomas, of New York, N. Y., B. A. Queens College, 1972; M. A. New York University, 1975. English.

Jenny Eunice Tippens, of Franklin, Tenn., B. A. Middlebury College, 1972; M. A., 1976. English.
*Time and Psychological Process in The Kingis Quair.*

Christopher Lawrence Tomlins, of Rickmansworth, Herts, England. History.

Paul Joseph Toscano, of Baltimore, Md., B. A. The Johns Hopkins University, 1978. Chemistry.

James Michael Treadway, of Little Rock, Ark., B. A. University of Dallas, 1975. English.

Mario Edmundo Carneiro Vieira, of Baltimore, Md., M. S. Naval Postgraduate School, 1974. Earth and Planetary Sciences.

Charles Minton Wahle, of Carmel, Calif., B. A. University of California, Santa Barbara, 1974. Earth and Planetary Sciences.

Harold Anthony Weaver, Jr., of Charleston, S. C. Physics.

James Lewis Adrian Webb, Jr., of Baltimore, Md., B. A. The Johns Hopkins University, 1978. History.
*The Historical Significance of the Marketing Boards of British West Africa, 1947-54: A Reassessment.*

Watt Wetmore Webb III, of Boston, Mass., B. A. Cornell University, 1976. Earth and Planetary Sciences.

Susan Marcia Weingast, of Los Angeles, Calif. History of Art.

Nicole Wissman White, of Parsons, Kans., B. A. University of Kansas, 1968; M. A. University of Maryland, 1970. History.

Robert Harrison Wickless, of Frederick, Md., A. A. Frederick Community College, 1970; B. A. University of Maryland, 1974. Writing Seminars.
*Our Jazz.*

Richard Earl Williams, of Rochester, N. Y., B. A. Alfred University, 1975. Earth and Planetary Sciences.

Marilyn Wyatt, of Washington, D. C., B. A. Cornell University, 1975. German.

Henry Yegerman, of New York, N. Y., B. A. Catholic University of Louvain, Belgium, 1976. Philosophy.

Robert Barry Zirlin, of Linden, N. J., B. A. Lafayette College, 1973. Philosophy.

Omar Zuhdi, of New York, N. Y., B. A. Central State College, 1973; M. A. University of Oklahoma, 1975. Near Eastern Studies.

William Neal Zulch, of White Plains, N. Y., B. A. University of New Hampshire, 1975. Philosophy.

## DOCTORS OF EDUCATION

### in The Evening College

Allyson Hughes Handley, of Baltimore, Md., B. A. University of Western Ontario, 1968; M. Ed. The Johns Hopkins University, 1975.

# DOCTORS OF SCIENCE

## in The School of Hygiene and Public Health

Zili Amsel, of Chicago, Ill.; B. A. Barnard College, 1962; M. A. New York University, 1970. Mental Hygiene.

*A Study to Measure the Varying Effects of Treatment Services on the Outcomes of Treatment for Narcotic Abusers in Four Modalities.*

Carlos Mauricio de Figueiredo Antunes, of Sabara, MG., Brazil. B. S. Federal University of Minas Gerais State, Brazil, 1967; Pharm. D. Minas Gerais State, 1968; M. S. Minas Gerais State, 1971. Epidemiology.

*The Relationship of Cancer of the Corpus Uterus to Exogenous Estrogen Administration: An Epidemiological Study.*

J. Manford Barber, III, of Baltimore, Md.; B. A. The University of Texas at Austin, 1962; M. A. The University of Florida, 1973; M. Ed. Harvard University, 1974. Health Services Administration.

*Problems in Speech Perception in Aphasia: Type of Impairment and Method of Evaluation.*

William Henry Dennis, Jr., of Frederick, Md.; B. S. The Johns Hopkins University, 1967; M. A. The Johns Hopkins University, 1968. Environmental Health Sciences.

*The Mode of Action of Chlorine on f2 Bacterial Virus During Disinfection.*

Steven Richard Eastaugh, of Boston, Mass.; B. A. Harvard College, 1973. M. S. P. H. Harvard School of Public Health, 1975. Health Services Administration.

*Determinants of Overutilization: An Analysis of Excessive Hospital Stays and Tests, and Inappropriate Utilization of Antipsychotic Drugs.*

Rhonda Friedman Einhorn, of Columbia, Md.; B. A. William Smith College, 1971; Sc. M. The Johns Hopkins University, 1973. Population Dynamics.

*A Comparative Trial of Physicians and Nurses in the Delivery of Family Planning Services.*

Marion Field Fass, of Baltimore, Md.; B. A. University of Pennsylvania, 1969. Health Services Administration.

*An Experimental Intervention to Increase Family Support for Patient Compliance.*

Rebecca Field, of Washington, D. C.; B. S. University of Wisconsin, 1968; M. S. University of Minnesota, 1970. Mental Hygiene.

*Vocal Behavior of Wolfe (Canis lupus): Variability in Structure, Context and Ontogeny.*

Myron Edwin Hatcher, of Flagstaff, Ariz., B. S. I. E. University of Toledo, 1969; M. S. I. E. University of Michigan, 1972; M. P. H. The Johns Hopkins University School of Hygiene and Public Health, 1975. Health Services Administration.

*Assignment Methodology for Health Education.*

Barbara Curtiss Henderson, of Rochester, N. Y.; B. A. Denison University, 1972. Health Services Administration.

*A Study of Auditory Processing and Speech Perception in Language Impaired Children.*

Karen Lynne Hoover, of Canfield, Ohio; B. A. University of New Hampshire, 1970. Pathobiology.

*The Effect of a Virus Infection on the Hemocyte Population in Carcinus Maenas.*

Sandra Lee Huffman, B. S. Cornell University, 1971. Population Dynamics.

*Determinants of Postpartum Amenorrhea in Rural Bangladesh.*

Kenneth William Hunter, Jr., of Phoenix, Ariz.; B. A. Arizona State University, 1972; M. S. Arizona State University, 1973. Pathobiology.

*Serum Opsonic Activity in Rodent Malaria.*

Larry Kessler, of Baltimore, Md.; B. S. Boston University, 1974. Health Services Administration.

*Episodes of Psychiatric Care and Medical Utilization.*

Marie Clare McCormick, of Philadelphia, Pa.; B. A. Emmanuel College, 1967; M. D. The Johns Hopkins University School of Medicine, 1971. Health Services Administration.

*An Evaluation of the Effects of Medical Care and Sociodemographic Factors in Infant and Pre-School Childhood Mortality Rates in Chile and Argentina, 1960-1970.*

Erwin David Riedner, of Baltimore, Md.; B. S. University of Wisconsin, 1964. M. A. University of Michigan, 1968. Health Services Administration.

*Hearing Aids and Minimum Insert Pressures.*

Julie Ellen Ries, of Baltimore, Md.; B. S. Towson State University, 1965; M. A. University of Pittsburgh, 1968. Health Services Administration.

*Acoustical-Perceptual Correlates of Stop and Fricative Consonants in Esophageal Speech.*

Ronald Maurice Rosenberg, of Houston, Tex.; A. B. Washington University, 1970. Pathobiology.

*Natural History of Anopheles balabacensis Baisas, 1936 and Transmission of Malaria in Bangladesh.*

Mark Frederick Schwartz, of Johnstown, Pa.; B. A. Franklin and Marshall, 1972. Mental Hygiene.

*Athletics, Friendships, Dating, Romance, and Sexuality in Adrenogenital Females, Aged 17-27, Compared with Females with Androgen-Insensitivity and Rokitansky Syndromes.*

A. B. M. Shafiullah, of Dacca, Bangladesh; B. A. Comilla College, 1959; M. A. Panjab University, 1962; M. A. University of Chicago, 1966. Population Dynamics.

*Effects of Male Age on Fertility Performance.*

Sherman Ray Williams, of Rockville, Md.; A. B. West Virginia University, 1957; M. P. H. University of California, Los Angeles, 1963. Behavioral Sciences.

*Perceived Competence and Physician Performance.*

## DOCTORS OF PUBLIC HEALTH

### in The School of Hygiene and Public Health

Arin Judith Chwalow, of Philadelphia, Pa.; B. S. N. University of Pennsylvania, 1970; M. P. H. The Johns Hopkins University School of Hygiene and Public Health, 1974. Health Services Administration.

*Effects of the Multiplicity of Contacts on Compliance Behavior of Hypertensives in an Inner City Clinic Population.*

Richard Henry Hart, of San Bernadino, Ca.; B. A. Walla Walla College, 1966; M. D. Loma Linda University, 1970; M. P. H. Loma Linda University, 1970. International Health.

*An Analysis of Tanzania's Medical Assistants and Rural Medical Aides at Work and in Training.*

Ann Mehring Koontz, of Columbia, Md.; B. S. University of Delaware, 1962; M. S. Boston University, 1964; M. P. H. The Johns Hopkins University School of Hygiene and Public Health, 1973. Maternal and Child Health.

*Relationship of Biologic Maturation and Birthweight in Adolescent Pregnancy.*

Chung-Fu Lan, of Taiwan, Republic of China; D. D. S. Taipei Medical College School of Dentistry, 1970; M. S. P. H. National Taiwan University, 1973; M. P. H. The Johns Hopkins University School of Hygiene and Public Health, 1976. Health Services Administration.

*Time Costs, Organization of Services, and the Use of Ambulatory Health Care Among the Urban Poor.*

Kiyohiko Mabuchi, of Itami, Japan; M. D. Osaka University, 1966; M. P. H. The Johns Hopkins University School of Hygiene and Public Health, 1975. Epidemiology.

*Occupational Exposure to Arsenic and Cancer. A Study in Pesticide Workers.*

John Stephen Neuberger, of New York, N. Y.; B. M. E. Cornell University, 1961; M. B. A. Columbia University, 1967; M. P. H. The Johns Hopkins University School of Hygiene and Public Health, 1974. Environmental Health Sciences.

*Mortality Impact of Air Pollution in Baltimore City.*

Gerson Noronha, of Rio De Janeiro, Brazil; M. D. Guanabara State Medical School, 1972; M. P. H. The Johns Hopkins University School of Hygiene and Public Health, 1974. Health Services Administration.

*The Self-Management Model and Its Relevance to the Condition of the Working Environment in Yugoslavia.*

Knut Ringen, of Baltimore, Md.; B. S. State University of New York at Oneonta, 1972; M. H. A. Medical College of Virginia, 1974; M. P. H. The Johns Hopkins University School of Hygiene and Public Health, 1975. Health Services Administration.

*The Development of Health Policy: Norway, England, and Germany.*

Mary Virginia Ruth, of Baltimore, Md.; B. S. N. Georgetown University, 1953; M. S. N. Yale University, 1961. Behavioral Sciences.

*Use of the Health Belief Model as an Explanation of Differential Utilization in a Genetic Screening Program.*

Somkiet Vongtangswad, of Bangkok, Thailand; B. S. Chulalongkorn University, 1963; M. S. Mahidol University, 1965; M. P. H. Tulane University, 1968. Pathobiology.

*Strategies and Efficiency of Toxorhynchites brevipalpis as a Predator on Mosquito Larvae and Pupae.*

# DOCTORS OF PHILOSOPHY

## in The School of Hygiene and Public Health

Awad Hussein Abudejaja, of Benghazi, Libya; M. B. B. Ch. Cairo University Faculty of Medicine, 1963; D. T. M. & H. Liverpool University, 1967; M. P. H. The Johns Hopkins University School of Hygiene and Public Health, 1974. Epidemiology.

*Some Determinants of Compliance with Treatment Following Community Blood Pressure Screening.*

Herbert Mark Baum, of Brooklyn, N.Y.; B. S. Brooklyn College (CUNY), 1973. Population Dynamics.

*A Comparison of the Factors Influencing Husband and Wife Decisions About Contraception.*

Stanley Roy Becker, of Baltimore, Md.; B. A. University of Chicago, 1972; M. A. University of Chicago, 1974. Population Dynamics.

*Fertility Measures From Cross-Sectional Surveys: Their Relationships and Sensitivity to Changes in Reproductive Patterns.*

Larry James Brant, of Meyersdale, Pa.; B. S. Frostburg State College, 1968; M. A. The Pennsylvania State University, 1972. Biostatistics.

*k-Ratio t Tests for Comparing n Treatments With a Control.*

Ngo Long Chong, of Malaysia; B. S. University of Science, Malaysia, 1972. Pathobiology.

*Neuroanatomical and Neurochemical Studies in Taenia Crassiceps.*

Curtis Evans Chubb, of Broken Arrow, Ok.; B. S. Oklahoma State University, 1968. Population Dynamics.

*Testicular Steroid Metabolism: A Study of Testosterone Biosynthetic Pathways in Rabbit and Rat Testes Perfused in Vitro.*

L. Jean Coombs, of Laconia, N. H.; B. A. Olivet College, 1969; M. S. State University of New York at Buffalo, 1973. Epidemiology.

*An Epidemiological Study of the Relationship Between Benign Breast Diseases and Breast Cancer.*

David Frederick Cruess, of Waterbury, Conn.; B.S. Southern Connecticut State College, 1973. Biostatistics.

*A Model for Determining Interval Length in Screening for Chronic Diseases.*

Curtis Herbert Freese, of Lowden, Iowa; B. S. Iowa State University, 1970. Pathobiology.

*Population Densities and Niche Separation in Some Amazonian Monkey Communities.*

Ellen Brooke Gold, of Los Angeles, Calif.; B. A. University of California, Los Angeles, 1970; M. A. University of California, Los Angeles, 1972. Epidemiology.

*The Epidemiology of Brain Tumors in Children.*

Robert Joel Goldberg, of Lowell, Mass.; B. S. University of Massachusetts, 1972; M. S. P. H. Tufts University, 1973. Epidemiology.

*The Short and Long-term Prognosis of Myocardial Infarction Complicated by Ventricular Fibrillation or Cardiac Arrest.*

Richard Bernard Hayes, of Baltimore, Md.; B. S. Manhattan College, 1967; D. D. S. Columbia University, 1971; M. P. H. The Johns Hopkins University School of Hygiene and Public Health, 1974. Epidemiology.

*A Study of Cancer in Chromate Production Workers.*

Farah Khalafbeigui Malayeri, of Baltimore, Md.; B. S. University of Tehran, 1968; M. S. University of Tehran, 1970. Environmental Health Sciences.

*The Depressive Effect of Acidosis ($CO_2$,$H^+$) on Cardiac Muscle and its Reversal With Epinephrine or $Ca^{2+}$.*

Daniel Lee McGee, of Silver Spring, Md.; A. B. University of California, Berkeley, 1970; M. A. University of California, Berkeley, 1971; M. H. S. The Johns Hopkins University School of Hygiene and Public Health, 1975. Biostatistics.

*Homogeneity of the Effect of Risk Factors on the Incidence of Cardiovascular Diseases.*

Bruce Robert Pitt, of New York, N. Y.; B. A. Brown University, 1970; M. H. S. The Johns Hopkins University, 1973. Environmental Health Sciences.

*The Effects of Carbon Monoxide and Cyanide on the Brain.*

Jane Teas, of Palo Alto, Calif.; B. A. University of California, Berkeley, 1973. Pathobiology.

*Behavioral Ecology of the Rhesus Monkeys (macaca mulatta) in Kathmandu, Nepal.*

Weishui Yeh Weiser, of Taipei, The Republic of China; B. S. National Taiwan University, 1965. Pathobiology.

*Macrophage-Lymphocyte Interaction in Mouse Hepatitis Virus Infection.*

## DOCTORS OF PHILOSOPHY

### in The School of Advanced International Studies

Janet Bancroft, of Annandale, Va., B. A. Principia College, 1958; M. A. Fletcher School of Law and Diplomacy, Tufts University, 1959.

*Industrial Entrepreneurship in Spain: Barcelona and Sevilla*

Donald Joseph Barry, of Antigonish, N. S., Canada, B. A. St. Francis Xavier University, 1968; M. A. Dalhousie University, 1970.

*Continuity and Change in Canadian Foreign Policy: From the Pre-War to the Post-War Experience, 1935-1957.*

John Edmund Devine, of Ocean City, N. J., B. A. The Johns Hopkins University, 1969; M. A. S. A. I. S., The Johns Hopkins University, 1972.

*Mexico's Partido Accion Nacional: Policy Positions and Electoral Support in a System of Political Control.*

Solomon Amangasor Gomez, of Bathurst, Republic of the Gambia, B. A. Harvard College, 1971; M. I. A. Columbia University, 1973.

*The Gambia's External Relations: A Study of the Internal and External Factors that Influenced Foreign Policy Positions, 1965-1975.*

David G. Haglund, of Springfield, Mass., B. A. Ohio State University, 1969; M. A. University of Vermont, 1972.

*The Battle of Latin America: Franklin D. Roosevelt and the End of Isolation, 1936-1941.*

John Julian Hamre, of Clark, S. D., B. A. Augustana College, 1972; M. A. S. A. I. S., The Johns Hopkins University, 1976.

*Congressional Dissent and American Foreign Policy: Constitutional War-Making in the Vietnam Years.*

Eric Daniel Kinne Melby, of Washington, D. C., B. A. Haverford College, 1970; M. A. S. A. I. S., The Johns Hopkins University, 1972.

*Oil and the International System: The Case of France, 1918-1969.*

Malcolm Bruce Russell, of Williamsport, Penna., B. A. Columbia Union College, 1970; M. A. S. A. I. S., The John Hopkins University, 1972.

*The Birth of Modern Syria: Amir Faysal's Government in Damascus, 1918-1920.*

Terese Sulikowski, of St. Paul, Minn., B. A. University of Minnesota, 1968; M. A. S. A. I. S., The Johns Hopkins University, 1970.

*Soviet Management of Ocean Affairs: The Case of the Fishing Industry.*

Mary Susan Ueber, of Ft. Wayne, Ind., B. A. Macalester College, 1972; M. A. S. A. I. S., The Johns Hopkins University, 1974.

*The Health Policy Process: If You Want to Win, You Have to Play the Game.*

Darnell M. Whitt II, of Washington, D. C., B. A. Harvard College, 1959; M. A. S. A. I. S., The Johns Hopkins University, 1966.

*Quarrel on the Rhine: The Trilateral Talks of 1966-1967.*

## DOCTORS OF MEDICINE

### in The Faculty of Medicine

Katherine Gray Amberson, of East Orleans, Mass., A. B. Smith College, 1974.

Eugenie Virginia Anderson, of Baltimore, Md., B. A. Syracuse University, 1968.

Robert M. Atkins, of Drexel Hill, Pa., A. B. Franklin and Marshall College, 1974.

Jane Avella, of Ozone Park, N. Y., B. S. St. John's University, 1974.

Alan Nathaniel Baer, of Washington, D. C., B. A. Johns Hopkins University, 1974.

Vernon Cosby Barksdale, of Farmville, Va., B. A. Johns Hopkins University, 1975.

John Robert Beck, of Lebanon, N. H., B. A. Dartmouth College, 1974.

Joshua Henry Bennett, of Rockaway Township, N. J., B. S. Pennsylvania State University, 1974.

Marc L. Berger, of Flushing, N.Y., B.A. Brandeis University, 1974.

Mary Ellen Blair, of Duluth, Minn., B.S. Michigan State University, 1974.

Teresa Lynch Brennan, of Roslyn, N.Y., B.S. Boston College, 1974.

Peter Anthony Campochiaro, of Baltimore, Md., B.S. University of Notre Dame, 1974.

Roderic John Cherrie, of Arlington, Va., B.S. University of Southern California, 1974.

Quintus Chess, of Brooklyn, N.Y., A.B. Princeton University, 1974.

Allen Anthony Ciuffo, of Denver, Colo., B.A. Johns Hopkins University, 1974.

Barry Alan Cohen, of Baltimore, Md., B.A. Dartmouth College, 1974.

Jack Andrew Copeland, of Baltimore, Md., B.A. Emory University, 1974.

J. Devn Cornish, of American Fork, Utah, B.A. Johns Hopkins University, 1975.

John Edward Costello, of Nashville, Tenn., A.B. Cornell University, 1973.

Kelly Louis Crawford, of Redwood City, Calif., B.S. University of California (Davis), 1974.

Christopher Michael Curcio, of Baltimore, Md., B.A. New York University, 1974.

Richard S. D'Agostino, of Brooklyn, N.Y., B.A. Johns Hopkins University, 1974.

Richard Bryant Damewood, of Princeton, W.Va., B.A. Johns Hopkins University, 1975.

Michael Stephan Datlow, of Hyattsville, Md., B.A. Johns Hopkins University, 1975.

Randy Frank Davis, of Monroe, N.Y., B.A. Johns Hopkins University, 1975.

George William Dec, Jr., of Silver Spring, Md., B.S. Georgetown University, 1974.

Marian Terese de Marinis, of Mount Vernon, N.Y., B.A. Johns Hopkins University, 1975.

Daniel Christopher DiMaio, of Providence, R.I., B.S. Yale University, 1974.

Patricia Marie Disharoon, of Baltimore, Md., B.A, Swarthmore College, 1974.

Mark Bernard Effron, of Baltimore, Md., B.S. Purdue University, 1974.

Walter Hartley Ettinger, Jr., of Baltimore, Md., A.B. Ohio Wesleyan University, 1974.

David Tobin Felson, of Evanston, Ill., A.B. Harvard College, 1974.

Francis T. Ferry, of Newtown, Pa., B.A. LaSalle College, 1974.

Richard Adam Fischer, of North Merrick, N.Y., B.A. Johns Hopkins University, 1972; M.H.S., 1974.

Paul Spencer Fishman, of New York, N.Y., B.A. Johns Hopkins University, 1971; Ph.D. Yale University, 1975.

Lawrence Samuel Friedman, of Springfield, N.J., B.A. Johns Hopkins University, 1975.

Barbara Jean Gastel, of Williamsville, N.Y., B.A. Yale University, 1974.

John William Gerster, of Newark, Del., B.A. Johns Hopkins University, 1974.

Alan Richard Gillespie, of Indianapolis, Ind., A.B. Brown University, 1974.

Lawrence S. Glassman, of Roslyn, N.Y., B.A. Johns Hopkins University, 1975.

David F. Graft, of Pittsburgh, Pa., B.A. Johns Hopkins University, 1975.

Martin Greenberg, of New York, N.Y., B.A. Northwestern University, 1974.

Gerald Quentin Greenfield, Jr., of Columbia, Md., B.A. Johns Hopkins University, 1974; M.A., 1974.

William Everett Grizzle, of Birmingham, Ala., A.B. Harvard College, 1965; Ph.D. Johns Hopkins University, 1975.

Andrew Charles Grossman, of Minneapolis, Minn., B.S. Stanford University, 1974.

Roger Arthur Harden, of Detroit, Mich., B.S. University of Notre Dame, 1974.

Thomas Edwin Harper, of Starke, Fla., B.A. Randolph-Macon College, 1969; B.S. University of Florida (Gainesville), 1974; M.A. University of Chicago Divinity School, 1973.

Craig Andrew Harrison, of Annapolis, Md., B.A. Dartmouth College, 1974.

Samuel Jack Hassenbusch III, of Baltimore, Md., B.A. Johns Hopkins University, 1974.

James M. Herman, of Middle Village, N.Y., B.S. University of Massachusettts, 1974.

Peter Anthony Holt, of Bridgeport, Conn., B.S. Fairfield University, 1974.

Donald F. Hull III, of Catonsville, Md., B.A. Duke University, 1974.

Robert Bryan Innis, of Baltimore, Md., B.S. Yale University, 1974.

Carla Lynn Janson, of Baltimore, Md., B. A. Johns Hopkins University, 1973.

Douglas Harry Jones, of Kingston, N. Y., B. A. Colgate University, 1974.

Mary Gloria Kane, of Barrington, Ill., B. A. Middlebury College, 1974.

Mitchell Gerard Karlowicz, of McLean, Va., B. S. Georgetown University, 1974.

Gregory Louis Kay, of Beverly Hills, Calif., B. S. Stanford University, 1974.

Robert Wilson Kieffer, of Phoenix, Md., B. A. Franklin and Marshall College, 1974.

Won Sup Kim, of Baltimore, Md., A. B. Harvard College, 1974.

Jan Lloyd Kramer, of Wheaton, Md., B. S. University of Maryland, 1974.

Erik William Kreutzer, of Fort Collins, Colo., B. A. University of Colorado, 1974.

Leslie Steven Leighton, of Great Neck, N. Y., B. A. University of Virginia, 1974.

Steven Martin LeVine, of St. Petersburg, Fla., B. S. Emory University, 1974.

Richard Alan Lewis, of Westbury, N. Y., A. B. Harvard College, 1974.

William Bethea Lide, of Florence, S. C., A. B. Princeton University, 1974.

Michael Lieppman, of St. Joseph, Mo., B. A. University of Missouri, 1974.

Keith Douglas Lillemoe, of Mellette, S. D., B. S. University of South Dakota School of Medicine, 1976.

John Richard Lipsey, of Baltimore, Md., B. A. Johns Hopkins University, 1972.

Robert Francis Lodato, of Evansville, Ind., B. S. University of Evansville, 1970; M. S. University of Illinois, 1971.

Calvin Lu, of Ottawa, Ontario, Canada, A. B. Princeton University, 1974.

Flavian Mark Lupinetti, of Wellsburg, W. Va., B. A. Johns Hopkins University, 1975.

Joan C. Marini, of Baltimore, Md., Sc. B., A. B. Brown University, 1974.

Robert Edward McCue, of West Mifflin, Pa., B. A. Johns Hopkins University, 1975.

Paul Charles McCullough, of Baltimore, Md., B. A. Rice University, 1974.

Steven Raymond Mohlie, of Baltimore, Md., B. S. Bates College, 1974.

Margaret Ann Morris, of Arlington, Va., B. A. Johns Hopkins University, 1975.

William Henry Morrison, of Savannah, Ga., B. A. University of Pennsylvania, 1974.

Frederick North, of Wichita, Kans., B. A. Johns Hopkins University, 1975.

Jessica Beatrice Orenstein, of Hartsdale, N. Y., B. A. Herbert H. Lehman College, 1974.

Fitzhugh Carter Pannill III, of Buffalo, N. Y., B. A. University of Texas, 1973.

Edward Samuel Parelhoff, of Baltimore, Md., B. A. Johns Hopkins University, 1975.

Gary Roy Pasternack, of Baltimore, Md., B. A. Johns Hopkins University, 1971.

Lorna Wynne Peck, of Charleston, W. Va., B. A. Johns Hopkins University, 1975.

Robert Michael Peppercorn, of Miami, Fla., B. A. Johns Hopkins University, 1975.

Nancy Lois Peters, of Seymour, Wis., B. A. Grinnell College, 1974.

Michael Thomas Pugliese, of Brooklyn, N. Y., B. A. Johns Hopkins University, 1975.

Dennis Allan Rasbach, of Johnstown, Pa., B. A. Johns Hopkins University, 1975.

William Davis Ratnoff, of Shaker Heights, Ohio, A. B. Harvard College, 1974.

David William Rattner, of Huntington Woods, Mich., B. S. University of Michigan, 1974.

Milton Aaron Reder, of New York, N. Y., B. A. Johns Hopkins University, 1973.

Gerald Mark Reid, of New Rochelle, N. Y., B. A. Johns Hopkins University, 1973.

Stephen Charles Riendl, of Waukesha, Wis., B. S. University of Notre Dame, 1974.

Peter Rock, of Baltimore, Md., B. A. Johns Hopkins University, 1975.

Jo Ann Rosenfeld, of Baltimore, Md., B. A. Johns Hopkins University, 1975.

Kate Rothko, of Baltimore, Md., B. S. Brooklyn College, 1973.

Stephen Eli Rubesin, of Palo Alto, Cal., B. S. Stanford University, 1974.

Jay H. Ryu, of Alexandria, Va., B. A. Johns Hopkins University, 1974.

David M. Sack, of Woodmere, N. Y., A. B. Harvard College, 1974.

Mary Elizabeth Schaaf, of Salt Lake City, Utah, B. S. Utah State University, 1974.

Charles Michael Schron, of New York, N. Y., B. A. Johns Hopkins University, 1974.

Mary Jo Shaffer, of Bentonia College, Miss., B. S. Newcomb College (Tulane University), 1974.

Leigh Swartley Shuman, of Houston, Tex., A. B. Harvard College, 1974.

Henry Jay Silverman, of Bronx, N. Y., B. S. Rensselaer Polytechnic Institute, 1974.

James Daniel Sloderbeck, of Jacksonville, Fla., B. A. Johns Hopkins University, 1975.

Paul Jonathan Sokal, of Williamsville, N. Y., B. A. Franklin and Marshall College, 1974.

Steven Emil Szebenyi, of Little Falls, N. J., B. A. Johns Hopkins University, 1974.

Irene C. Tang, of Culver City, Cal., B. A. Johns Hopkins University, 1975.

Kenneth Laurence Tyler, of Brookline, Mass., A. B. Harvard College, 1974.

Thomas John Walsh, of Danbury, Conn., B. A. Assumption College, 1974.

Barbara Kay Wang, of Fair Lawn, N. J., A.B. Princeton University, 1974.

Paul Allan Watkins, of Baltimore, Md., B. A. Johns Hopkins University, 1971.

Robert A. Weiss, of Rego Park, N. Y., A. B. Columbia University, 1974.

Daniel I. Woronow, of Bethesda, Md., B. A. Johns Hopkins University, 1975.

## DOCTORS OF PHILOSOPHY

### in The Faculty of Medicine

Theresa Ann Barry, of Drexel Hill, Pa., B. S. Drexel Institute of Technology, 1972; M. D. Johns Hopkins University, 1976. Pharmacology and Experimental Therapeutics.

*Studies on the Glycolysis of* Schistosoma mansoni.

Barbara Stuckey Beckman, of New Orleans, La., B. S. Newcomb College of Tulane University, 1968. Pharmacology and Experimental Therapeutics.

*The Beta-Adrenergic Receptor and Adenylate Cyclase in Rat Erythropoiesis.*

Ernesto Bustamante, of Lima, Peru. Biochemistry, Cellular and Molecular Biology Program—Physiological Chemistry.

*Role of Mitochondria in the Physiology of the Cancer Cell.*

Betti-Ellen Drysdale, of Baltimore, Md., A. B. Mount Holyoke College, 1972. Biochemistry, Cellular and Molecular Biology Program—Physiological Chemistry.

*NMR Studies of Alcohol Dehydrogenase.*

David Alan Greenberg, of Baltimore, Md., A. B. Cornell University, 1971; M. D. Johns Hopkins University, 1976. Pharmacology and Experimental Therapeutics.

*Radioligand Studies of Alpha-Adrenergic Receptors in Mammalian Brain.*

Rudolf Carl Kuppers, Jr., of Costa Mesa, Calif., B. A. San Fernando Valley State College, 1967. Microbiology.

*Studies on the Expression of Murine T Lymphocyte Function.*

Veng-Kin Lau, of Burlington, Mass., B. Sc. Lowell Technological Institute, 1973. Biomedical Engineering.

*A Study of Canine Right Atrial Contraction and Its Relationship to Ventricular Filling.*

Robert Leon Lechner, of Baltimore, Md., B. S. Cornell University, 1972. Biochemistry, Cellular and Molecular Biology Program—Microbiology.

*The Structure of Replicating Adenovirus-2 DNA Molecules.*

Robert John Mello, of East Providence, R. I., B. S. Providence College, 1972. Biochemistry, Cellular and Molecular Biology Program—Physiological Chemistry.

*Vascular Endothelial Cell Culture: Use in Studies of an Endothelial Cell Mitogen Derived from the Walker 256 Rat Carcinoma.*

Nanette Newell, of Tacoma, Wash., B. S. Lewis and Clark College, 1973. Biochemistry, Cellular and Molecular Biology Program—Microbiology.

*Evolution of Primate Papovaviruses.*

Gary Roy Pasternack, of Baltimore, Md., B. A. Johns Hopkins University, 1971. Microbiology.

*On the Suppression of Tumor Cells* in vitro *by Macrophages and Antiserum.*

Sharon Scott Price, of King George, Va., B. S. Virginia Polytechnic Institute, 1970; M. S., 1972. Biochemistry, Cellular and Molecular Biology Program—Physiological Chemistry.

*The Sequence Heterogeneity of the Minicircles in Kinetoplast DNA from* Leishmania tarentolae.

Douglas Kenneth Struck, of Flemington, N. J., B. A. Brown University, 1973. Biochemistry, Cellular and Molecular Biology Program—Physiological Chemistry.

In vitro *and* in vivo *Studies on the Formation of the N-Glycosidic Bond.*

David Michael Tarlow, of Revere, Mass., B. S. University of Massachusetts, 1973. Biochemistry, Cellular and Molecular Biology Program—Physiological Chemistry.

*Regulation of Lipogenesis in an Avian Hepatocyte Cell Culture System.*

George Richard Uhl, of Baltimore, Md., B. A. Johns Hopkins University, 1973. Pharmacology and Experimental Therapeutics.

*Neurotensin Systems in the Mammalian Brain: Receptor Binding, Radioimmunoassay and Immunohistochemical Characterization.*

Xavier J. Ysern, of Caracas, Venezuela. Biochemistry, Cellular and Molecular Biology Program—Biophysics.

*Three-Dimensional Structure of the Fab Fragment of Cryoimmunoglobulin IgG Hil at 4.5Å Resolution.*

Harry Kirk Ziegler, of Ford City, Pa., B. A. Johns Hopkins University, 1973. Microbiology.

*Studies on the Mechanism of Human K-cell Mediated Cytolysis.*

## DOCTORS OF MUSICAL ARTS

### in The Peabody Conservatory of Music

Walter F. Lee, of Maryland, B. M. Peabody Conservatory of Music, 1969; M. M. Peabody Conservatory of Music, 1973. Oboe.

*Analysis of Selected Compositions for Solo Oboe by Gordon Jacob: Solo Sonata for Oboe and Piano, Sonatina for Oboe and Harpsichord, Two Pieces for Two Oboes and Cor Anglais, Concerto for Oboe.*

Dorothy Ellen Lewis, of Georgia, B. S. The Juillard School, 1954; M. S. The Juillard School, 1955. Piano.

*Stylistic Features of the Piano Works of Robert Starer.*

Richard Lawrence Soule, of Connecticut, B. M. Boston University, 1967; M. M. Peabody Conservatory of Music, 1973. Flute.

*The Six Synchronisms of Mario Davidovsky.*

James Franklin West, of South Carolina, B. A. University of North Carolina, 1948; M. M. Indiana University, 1955. Instrumental Conducting.

*Six Unpublished Symphonies of William Boyce (1711-1779).*

## DOCTORS OF PHILOSOPHY

### in The Faculty of Arts and Sciences

Vinod Kumar Agarwal, of Mathura, India, B. E. Birla Institute of Technology and Science, India, 1973; M. S. University of Pittsburgh, 1974. Electrical Engineering.

*Generic Characterizations of Multiple Faults for Table-Look-Up Coverage Bounding.*

William Barry Ahearn, of Montague, Mass., B. A. Trinity College, 1973; M. A. The Johns Hopkins University, 1975. English.

*The Aesthetics of "A".*

Ayse Kunter Ariturk, of Istanbul, Turkey, M. A. The Johns Hopkins University, 1975. Political Economy.

*General Equilibrium Effects of Turkish Migration.*

Roger Stephen Meyers Baber, of Swindon, Wilts, England, B. A. University of Liverpool, 1966; B. of Philosophy, 1968; M. A. The Johns Hopkins University, 1971. Philosophy.

*Berkeley, Strawson, and Restricted Worlds.*

Roy Alden Bailey, of Barrington, R. I., B. A. Brown University, 1951; M. S. Cornell University, 1954. Earth and Planetary Sciences.

*Vulcanism, Structure and Petrology of the Long Valley Caldera, California.*

Robert Joseph Barbera, of Huntington, N. Y., B. A. The Johns Hopkins University, 1974. Geography.

*The Evaluation of Public Projects: Problems of Federal vs. State Objectives.*

Michael Lee Barre, of Memphis, Tenn., S. T. B. St. Mary's Seminary and University, 1968. S. T. M., 1970. Near Eastern Studies.

*The God List in the Treaty Between Hannibal and Philip V of Macedonia: A Study from the Viewpoint of the Ancient Near Eastern Treaty Tradition.*

Roger Barth, of New York, N. Y., B. A. LaSalle College, 1973; M. A. The Johns Hopkins University, 1974. Chemistry.

*The Adsorption of Small Molecules by Supported Metal Catalysts.*

Santanu Basu, of Calcutta, India, B. Tech.. Indian Institute of Technology, 1968; M. S. E. The Johns Hopkins University, 1973. Electrical Engineering.

*Robust Estimation of Cross-Correlation for Parameter Identification of Linear Systems.*

Judith Marie Bates, of Greenbelt, Md., B. A. Trinity College, 1971; M. A. The Johns Hopkins University, 1973. Chemistry.

*Theoretical and Experimental Aspects of Light Scattering from the Surface of Liquid Mercury.*

Edward Joseph Beiting III, of Alexandria, Ky., B. S. University of Cincinnati, 1971; M. A. The Johns Hopkins University, 1973. Physics.

*Laboratory and Auroral Studies of Molecular Nitrogen.*

Daniel Anthony Beneski, of Kingston, Pa., B. S. Stevens Institute of Technology, 1971. Biology.

*Studies on Sugar Transport in Salmonella Typhimurium.*

Mathilde Benveniste, of Thessaloniki, Greece, B. A. University of Pennsylvania, 1968; M. S. E. The Johns Hopkins University, 1975. Environmental Engineering.

*A Mathematical Model of a Monopolistic World Oil Market.*

Muriel Van Dusen Berkeley, of Baltimore, Md., B. A. Radcliffe College, 1968. Social Relations.

*Inside Kindergarten.*

Ronald Norman Berzofsky, of Baltimore, Md., B. S. University of Maryland, 1970; M. A. The Johns Hopkins University, 1971. Biology.

*Isolation and Characterization of a Deoxyribonuclease from Human Epidermoid Carcinoma Number 2 Tissue Culture Cells.*

David Bigman, of Tel-Aviv, Israel, B. A. Hebrew University of Jerusalem, 1973; M. S. E. The Johns Hopkins University, 1977. Political Economy.

*Essays on the Neo-Classical Theory of Production and Distribution and the Theory of Aggregation.*

Yves Billioux, of Nice, France. Engineering Diploma and Masters Diploma, University of Strasbourg, France, 1969; M. A. TheJohns Hopkins University, 1970. Chemistry.

*9-Oxo-trans, Syn, Trans-Perhydroanthracene: Enolization and Alkylation.*

Paul Leonard Black, of Baltimore, Md., B. A. The Johns Hopkins University, 1969. Biology.

*Genetic Studies of the Human Lymphocyte Proliferation Response Induced in vitro by Highly Purified Allergens.*

Moses Andreas Boudourides, of Xanthi, Greece, Diploma, National Technical University of Athens, 1973. Mechanics and Materials Science.

*Stability of Rimming Flows.*

Steven Eugene Boyer, of Vicksburg, Pa., B. S. Bucknell University, 1972; M. A. The Johns Hopkins University, 1974. Earth and Planetary Sciences.

*Structure and Origin of the Grandfather Mountain Window, N. C.*

Peter George Broad, of Providence, R. I., B. A. Dartmouth College, 1966; M. A. The Johns Hopkins University, 1969. Romance Languages.

The Constant Center: *Consistency and Change in the Poetry of Jose Luis Hidalgo.*

Hiram Henry Brownell, of Northampton, Mass., B. A. Stanford University, 1974; M. A. The Johns Hopkins University, 1976. Psychology.

*Picture Perception and Semantic Memory.*

Robert Frederick Brunhouse, of San Jose, Calif. Biology.

*Light Chain Isotypes from Guinea Pig Antibodies: Restriction in Heterogeneity is Associated with Antibody Specificity.*

Catherine Ellen Campbell, of Harrisburg, Pa., B. A. Western Maryland College, 1973; M. A. The Johns Hopkins University, 1977. Psychololgy.

*Implicit Rule Learning: Effects of Instructional Set, Age and Reading Ability.*

Robert Thomas Carlson, of Jamestown, N. Y., B. S. Pennsylvania State University, 1973; M. S. E. The Johns Hopkins University, 1977. Electrical Engineering.

*The Application of Doubly Stochastic Poisson Process Estimation Techniques to Optical Intensity Estimation for Gaussian Optical Fields.*

Philip Howard Carver, of Cheyenne, Wyo., B. A. University of California, San Diego, 1972. Geography.

*Price as a Water Utility Management Tool under Stochastic Conditions.*

Robert Faulkner Casillo, of Birmingham, Mich., B. A. Columbia University, 1972; M. A. The Johns Hopkins University, 1974. English.

*The Parallel Design in John Ruskin and Ezra Pound.*

Lydia Ai-Ni Chen, of Taipei, Taiwan. B. S. National Taiwan University, 1968. Biology.

*The Appication of Nanosecond Time-Dependent Emission Anisotropy to Studies of Artificial Membranes.*

Kee Soon Chun, of Kunsan City, Korea, B. S. University of Missouri, 1957; M. S., 1958. Electrical Engineering.

*Mathematical Model of the Vestibuloocular Reflex.*

Michael David Cole, of Ada, Ohio, B. A. Ohio Northern University, 1973. Biophysics.

*Molecular Microscopy of Osmium-Labeled Polynucleotides and Ribosomal Protein-Ribosomal RNA Complexes.*

Francis David Correll, of Philadelphia, Pa., B. A. University of Pennsylvania, 1970; M. A. The Johns Hopkins University, 1973. Physics.

*Application of the B-NMR Technique to Measurements of the Nuclear Moments of $^{8}Li$, $^{12}B$ and $^{12}N$.*

Forest Claude Deal, Jr., of Catonsville, Md., B. S. Rollins College, 1968; M. A. The Johns Hopkins University, 1975. Mathematical Sciences.

*Conditions for Strong Consistency of M-Estimators for Location.*

Alberto Devoto, of Cagliari, Italy, Laurea in Physics, University of Cagliari, Italy, 1970; M. A. The Johns Hopkins University, 1975. Physics.

*Hyperfine Energy Contributions from Two and Three Photon Virtual Annihilation of Positronium.*

William di Canzio, of Philadelphia, Pa., B. A. University of Pennsylvania, 1971; M. A. The Johns Hopkins University, 1975. English.

*Pound and the Pateresque Renaissance.*

Barbara Kathryn Dodge, of Lafayette, Calif., B. A. Stanford University, 1968. History of Art.

Tradition, Innovation, and Technique in Trecento Mural Painting: *The Frescoes and Sinopie Attributed to Francesco Traini in the Camposanto in Pisa.*

Robert Allen Driskill, of Lynchburg, Va., B. A. Michigan State University, 1973. Political Economy.

*Monetary Policy and Exchange Rate Dynamics.*

John Christian Duke, Jr., of Baltimore, Md., B. E. S. The Johns Hopkins University, 1973; M. S. E., 1976. Mechanics and Materials Science.

*Nondestructive Investigation of the Mechanical Deformation of 7075 Aluminum.*

David Alvoid Edmonson, of Quincy, Ill., B. S. University of Illinois, 1973; M. A. The Johns Hopkins University, 1975. Chemistry.

*Charged Particle Spectroscopy: Part I - Ion Impact Excitation of the Low-Lying Singlet and Triplet Valence States of Water, Part II - High Resolution Electron Energy Spectra (0-26 keV) in an Active Aurora.*

Abd El-Rahman Hussein Abd El-Rahman El-Sawy, of Mehalla El-Kobra, Arab Republic of Egypt., B. Sc. Ain Shams University, Egypt, 1968; M. Sc., 1972. Electrical Engineering.

*Robust Detection of Signals in Noise.*

Michael John Engler, of Sioux City, Iowa, B. A. The Johns Hopkins University, 1973. Biology.

*Purification and Characterization of a Mutator and the Wild Type DNA Polymerase from Salmonella typhimurium.*

Steven Earl Fick, of Baltimore, Md., B. E. S. The Johns Hopkins University, 1973. Electrical Engineering.

*Three Dimensional Measurements of Ultrasonic Waves in Solids.*

Paula Marie Dean Fitzgerald, of Burbank, Calif., B. S. Stanford University, 1972; B. A., 1972. Biophysics.

*Aggregation of Hemoglobin C: A Crystallographic Study.*

Marc Mitchell Friedman, of Philadelphia, Pa., B. S. Brooklyn College, 1972; M. A. The Johns Hopkins University, 1974. Earth and Planetary Sciences.

*Electron Microscropic Studies of the Filter-Feeding Mechanism of Calanoid Copepods.*

Terry L. Friesz, of Cambridge, Mass., B. A. University of Virginia, 1970; M. S. E. The Johns Hopkins University, 1975. Environmental Engineering.

*Dynamic, Multiobjective Models for Regional Public Investment Planning.*

Jack Fruchtman, Jr., of Washington, D. C., B. A. Hobart College, 1965; M. A. University of California, Berkeley, 1967. Political Science.

The Apocalyptic Politics of Price and Priestley: *Political Change, the Historical Process and Civil Responsibility in Late Eighteenth-Century Republican Millennialism.*

Peter Hans Gauss, of Muhlheim/Main, West Germany, B. S. St. Joseph's College, 1971. Biology.

*Gene y mutants of Bacteriophage T4D: DNA Synthesis in Multiply Mutant Strains and Bacteriophage T4D Mutants Defective in Gene W, 32, 47 and 59 Functions: DNA Synthesis in Multiply Mutant Strains.*

Jeroen Gerritsen, of Leiden, The Netherlands, B. S. Antioch College, 1974; M. A. The Johns Hopkins University, 1976. Earth and Planetary Sciences.

*Encounter Probability and its Effects on Feeding, Defense and Breeding Systems among Zooplankton.*

Antolin Julian Gonzalez-del-Valle, of Wilmington, N. C., B. A. Wilmington College, 1969; M. S. E. The Johns Hopkins University, 1972. Electrical Engineering.

*The Study of Light Intensity Fluctuations in Turbulent Media by Photocounting Techniques.*

Matthew Samuel Goodman, of Chicago, Ill., B. S. in Phys. Indiana University, 1969; M. A. The Johns Hopkins University, 1971. Physics.

*A Search for Massive Diphoton States in Proton-Nucleon Collisions at 400 GeV.*

George Stanley Greaney, of Greenfield, Mass., B. S. Rutgers University, 1972. Geography.

*Environmental Regulation of Fish Hemoglobins by Adenosine Triphosphate in vivo and in vitro Studies.*

David Lloyd Greene, of New York, N. Y., B. A. Columbia University, 1971; M. A. University of Oregon, 1973. Geography.

*Multinucleation in Urban Spatial Structure.*

James Bernard Grotberg, of Oak Park, Ill., M. S. E. The Johns Hopkins University, 1976. Mechanics and Materials Science.

*Lung Mechanics: Dynamic Response, Acoustic Generation and Flow Limitation.*

Edward Victor Heck, of New Orleans, La., B. A. University of the South, 1968; M. A. University of Virginia, 1971. Political Science.

*Justice Brennan and the Changing Supreme Court.*

Karen Harriet Heldmeyer, of Lansing, Mich., B. A. University of Michigan, 1972; M. A. The Johns Hopkins University, 1977. Psychology.

*The Developmental Effects of Nonperceptual Information in Perceptual Tasks.*

Jerry Clark Heston, of Mansfield, Ohio, B. A. Bucknell University, 1965. Philosophy.

*Cognitive Theory and the Content of Psychological States.*

Alice Lynn Hoersch, of Honey Brook, Pa., B. A. Bryn Mawr College, 1972; M. A. The Johns Hopkins University, 1974. Earth and Planetary Sciences.

*Zoned Calc-silicate Nodules from the Contact Aureole of the Binn an Dubhich Granite, Isle of Skye, Scotland: A Re-examination.*

Lee Windsor Hoevel, of Kansas City, Mo., B. A. William Marsh Rice University, 1968. Electrical Engineering.

*Directly Executed Languages.*

Eunice Dunster Howe, of Boston, Mass., B. A. Mount Holyoke College, 1970; M. A. Rosary College, 1971. History of Art.

*The Hospital of Santo Spirito and Pope Sixtus IV.*

Mark David Johnston, of Eugene, Oreg., B. A. University of Oregon, 1974; M. A. The Johns Hopkins University, 1975. Romance Languages.

*The Semblance of Significance: Language and Exemplarism in the Art of Ramon Llull.*

Charles Andrew Jones, of Rockledge. Fla., B. S. Florida State University, 1970. Chemistry.

*The Energetics of Several Ion Molecule Reactions.*

Christa Jungnickel, of Palo Alto, Calif. History of Science.

*The Royal Saxon Society of Sciences: A Study of Nineteenth-Century German Science.*

Cornelius Martin Kerwin, of Waterbury, Conn., B. A. American University, 1971; M. A. University of Rhode Island, 1973. Political Science.

*Dimensions of Quality.*

Rajendra Kumar Trimbak Khanwalkar, of Sagar Madhya Pradesh, India. Mechanics and Materials Science.

*Finite Amplitude Tensile Wave Propagation in Stretched Vulcanized Natural Rubber.*

Ronald Alan Kline, of Greenbelt, Md., B. E. S. The Johns Hopkins University, 1974; M. S. E., 1975. Mechanics and Materials Science.

*Optical and Piezoelectric Detection of Acoustic Emission Signals.*

Leslie James Krueger, of New York, N. Y., B. A. Rutgers College, 1971; M. A. The Johns Hopkins University, 1976. Biology.

*Full-Length Globin mRNA Transcription: Template for Gene Synthesis.*

William Peter Krug, of Spencerport, N. Y., B. S. Manhattan College, 1973. Chemistry.

*Organic Metals: Synthesis and Study of Novel $\pi$-Donors.*

Louis Martens Kunkel, of New York, N. Y. Biology.

*The Identification, Purification, and Characterization of a Portion of Human Y-Chromosome DNA.*

Nancy Louise Kunkel, of Huntingdon, Pa., B. S. Juniata College, 1971. Biology.

*Histone Gene Transcription in the Sea Urchin Embryo.*

William Perry Lafuse, of Richmond, Ind., B. S. Purdue University, 1973. Biology.

*The Role of the Histocompatibility-2 Locus in Modifying Cyclic AMP Levels.*

Robert David Lake, of Baltimore, Md., B. A. Gettysburg College, 1967; M. S. The Johns Hopkins University, 1970. Mathematical Sciences.

*Bunker Hill III.*

Thomas Grover Land, of East St. Louis, Ill., B. A. University of Wyoming, 1974; M. A. The Johns Hopkins University, 1976. Psychology.

*Decision-making in a Competitive Situation: Move Selection in Backgammon.*

Adele Easton Laslie, of New Orleans, La., B. A. Sweet Briar College, 1967; M. A. The Johns Hopkins University, 1973. Philosophy.

*Partial Beliefs and Rational Decision Making: Some Problems in the Theory of Subjective Probability.*

William Reed Laws, of Fort Wayne, Ind., B. S. Purdue University, 1971. Biology.

*The Use of Excited-State Proton Transfer in Biological Systems.*

Beverly Campbell Leetch, of Baltimore, Md., B. A. Mary Baldwin College, 1964; M. A. The Johns Hopkins University, 1969. Romance Languages.

*Salas Barbadillo's La ingeniosa Elena: An Edition and Study.*

Wilhelmina Arleen Leigh, of Washington, D. C., B. A. Cornell University, 1970; M. A. The Johns Hopkins University, 1975. Political Economy.

*An Analysis of the Growth of the Stock of Housing as an Indicator of the Growth of Housing Services in the U. S. 1950-1970.*

Carl Michael Lentz, of Gore, Va., B. S. Madison College, 1973; M. A. The Johns Hopkins University, 1975. Chemistry.

*Synthetic and Mechanistic Studies in Organolithium and Organocopper Chemistry.*

Donal Stephen Luse, of Baltimore, Md., B. A. The Johns Hopkins University, 1973. Biophysics.

*Studies on the* in vitro *transcription of RNA using* Drosophila melanogaster *RNA Polymerases.*

Presley Frank Martin, of Jeffersonville, Ind., B. S. Indiana University, 1971. Biology.

*Analysis of Imaginal Disc Development in Droscophila Melanogaster.*

Gerald Matisoff, of Brookline, Mass., B. S. Massachusetts Institute of Technology, 1973; M. A. The Johns Hopkins University, 1975. Earth and Planetary Sciences.

*Early Diagenesis of Chesapeake Bay Sediments: A Time Series Study of Temperature, Chloride, and Silica.*

Joseph Albert McClintock, of Anderson, Ind., B. A. The Johns Hopkins University, 1971; M. A., 1972. Physics.

*Production of Electrons with Energy Greater than 50 keV by Heavy Ion-Atom Collisions.*

Margaret Ellen McGuire, of Raynham, Mass., B. A. Mount Holyoke College, 1972; M. A. The Johns Hopkins University, 1973. Classics.

*Suetonius' Life of Titus: An Historical Commentary.*

Abraham Mehrez, of Haifa, Israel, B. A. Hebrew University of Jerusalem, 1972; M. A. The Johns Hopkins University, 1976. Environmental Engineering.

*The Analysis of Uncertain Risky R & D/I Decisions.*

Mark Crispin Miller, of Chicago, Ill., M. A. The Johns Hopkins University, 1974. English.

*Courtliness in the English Renaissance.*

Carol Jane Mills, of Baltimore, Md., B. S. Towson State College, 1974; M. A. The Johns Hopkins University, 1976. Psychology.

*Sex-Role-Related Correlates of Intellectual Ability in Adolescents.*

Glenn Earle Mitzel, of Columbia, Md., B. E. S. The Johns Hopkins University, 1973; M. S. E., 1975. Electrical Engineering.

*Representation and Realization of Homogeneous Nonlinear Systems.*

Patrick David Moore, of Salt Lake City Utah, B. S. California State University, Northridge, 1973; M. A. The Johns Hopkins University, 1975. Chemistry.

*The in vivo and in vitro Reactions of the trans-7,8-Dihydrodiol-9,10-epoxides of Benzo [a]pyrene with Nucleic Acids and Physicochemical Properties of Certain Substituted Guanosines.*

Michael Charles Nelson, of New Milford, N. J., B. A. College of William and Mary in Virginia, 1971; M. A. The Johns Hopkins University, 1974. Political Science.

*The American People and the Administrative State.*

George Joseph Otte, of St. Louis, Mo., B. A. St. Louis University, 1968; M. A. The Johns Hopkins University, 1973. Political Science.

*Party and Bureaucracy: Political Influence in German Municipal Administration.*

Christopher Arnold Page, of Baltimore, Md., B. A. Dartmouth College, 1969; M. A. The Johns Hopkins University, 1974. Philosophy.

*The Natural Correctness of Names in Plato's Cratylus: An Interpretative Study.*

Hongwoo Park, of Seoul, Korea, B. S. Seoul National University, 1965; M. S., 1967; M. A. The Johns Hopkins University, 1973. Physics.

*A Rocket Study of Vacuum Ultraviolet Auroral Emissions.*

Jongsei Park, of Seoul, Korea, B. S. Seoul National University, 1966. Chemistry.

*Studies on Metallocene Compounds: Synthesis and Properties of Biruthenocene and Related Compounds.*

Louise Rebecca Pasternack-Rafferty, of New York, N. Y., B. A. Radcliffe College, 1973; M. A. The Johns Hopkins University, 1975. Chemistry.

*Laser-Induced-Fluorescence Studies of Chemical Reactions.*

Andrew Paul Paszek, of Maplewood, N. J., B. A. Rutgers University, 1966; M. A. The Johns Hopkins University, 1969. Physics.

*Trivalent Actinide Spectra in Hexagonal Crystals.*

Robert Alan Pedrick, of Washington, D. C., B. A. The Johns Hopkins University, 1953; M. A., 1956. Geography.

*The Role of the Bloodworm, Glycera dibranchiata, in the Biogeochemical Distribution of Heavy Metals.*

Vicki Gwen Porter, of Long Beach, Calif., B. A. University of California, Santa Barbara, 1972; M. A. The Johns Hopkins University, 1974. History of Art.

*The West Looks at the East: The Livre des Merveilles du Monde.*

Robert Louis Powell III, of Baltimore, Md., B. E. S. The Johns Hopkins University, 1972; M. S. E., 1973. Mechanics and Materials Science.

*Linear and Non-Linear Response of Viscoelastic Fluids.*

Janet Tremblay Pozen, of Boston, Mass., B. A. Carlow College, 1966. Social Relations.

*The Impact of Clinic Structure on Client Sense of Control and Participation in the Medical Care Process.*

Susan Marie Radius, of Chicago, Ill., B. A. Vassar College, 1969; M. Ed. Goucher College, 1970. Social Relations.

*An Empirical Test of a Sociobehavioral Model to Predict Mothers' Compliance with a Regimen for Pediatric Asthmatics.*

Richard Carville Raup, of Baltimore, Md., M. S. E. The Johns Hopkins University, 1975. Electrical Engineering.

*Iteratively Generated Sequences in Euclidean Space.*

Arden Reed, of Denver, Colo., B. A. Wesleyan University, 1970; M. A. The Johns Hopkins University, 1972. Humanities Center.

*The Climates of Coleridge and Baudelaire: A Meteorology.*

Suzanne Louise Rohaly Richard, of Erie, Pa., B. A. Gannon College, 1971. Near Eastern Studies.

*The End of the Early Bronze Age in Palestine-Transjordan: A Study of the Post-EB III Cultural Complex.*

Stella Catherine Miller Robertson, of Washington, D. C., B. A. Goucher College, 1971. Biology.

*Studies on Mucosal Secretory Immunity.*

Lilien Filipovitch Robinson, of Washington, D. C., B. A. George Washington University, 1962; M. A., 1965. History of Art.

*Marc-Charles-Gabriel Gleyre: A Study of his Life and Work.*

Donald Zaff Rogers, of Charleston, W. Va., B. A. The Johns Hopkins University, 1973; M. A., 1974. Chemistry.

*Alumina Catalyzed Nucleophilic Opening of Epoxides.*

Margaret Deanne Rouse-Jones, of Port of Spain, Trinidad, B. A. University of the West Indies, Barbados, 1971; M. A. The Johns Hopkins University, 1974. History.

*St. Kitts, 1713-1763: A Study of the Development of a Plantation Colony.*

John Stephen Russell, of Baltimore, Md., B. A. The Johns Hopkins University, 1973; M. A., 1975. English.

*The Grammar of the Dream Vision.*

Lawrence Cooper Sager, of Manhattan, Kans., B. A. Hamilton College, 1974; M. A. The Johns Hopkins University, 1976. Psychology.

*Preattentive Processing of Visual Pattern Information.*

Rozanne Marie Sandri, of Palmerton, Pa., B. A. Wilkes College, 1969. Biology.

*Bacteriophage Pl-Mediated Generalized Transduction in Escherichia coli: Fate of Transduced DNA and Bacteriophage Pl-Mediated Generalized Transduction in Escherichia coli: Structure of Abortively Transduced DNA.*

Andre Sapir, of Brussels, Belgium, Bachelor (Licencie) in Economics, Universite Libre de Bruxelles, 1972; M. A. The Johns Hopkins University, 1975. Political Economy.

*External Migration in a Growing Labor-Managed Economy: The Case of Yugoslavia.*

Steven Arthur Sass, of Philadelphia, Pa., B. A. University of Delaware, 1970; M. A. The Johns Hopkins University, 1974. History.

*Entrepreneurial Historians and History: An Essay in Organized Intellect.*

Alan Paul Schaum, of Baltimore, Md., B. A. The Johns Hopkins University, 1968; M. A., 1972. Physics.

*Field-Theoretic Description of Bound States.*

Rolf Richard Schmitt, of Seattle, Wash., B. A. California State College at Los Angeles, 1972. Geography.

*Accessibility, Experimentation, and the Evaluation of Transportation Developments for Disadvantaged Groups.*

Ethan Abba Seidel, of Baltimore, Md., B. A. The Johns Hopkins University, 1963. Political Economy.

*The Effect of Bank Credit Cards and Use on the Demand for Money by the Household Sector.*

Anne Frances Waterman Sienkewicz, of Severn, Md., B. S. University of Maine, 1971; M. A. The Johns Hopkins University, 1974. Romance Languages.

*Two Women of Letters: Mme de Sévigné and Mme du Duffand.*

James Gale Simmons, of New Albany, Miss., B. S. Mississippi State University, 1969. Psychology.

*Changing Scientific Beliefs: Social Psychological Variables in the Peer Review Process.*

David Randall Smith, of New Rochelle, N. Y., B. A. Dartmouth College, 1973. Social Relations.

*A Multivariate Analysis of Small Group Sociometric Structure.*

Michael David Smith, of Huntsville, Ala., B. A. Alabama Agricultural and Mechanical College, 1968; M. A. The Johns Hopkins University, 1973. Political Science.

*The Political Socialization of Three Types of Black Leaders: Descriptions, Comparisons and Questions.*

Joseph Patrick Smoot, of Washington, D. C., B. S. University of Maryland, 1973. Earth and Planetary Sciences.

*Sedimentology in a Saline Closed Basin: the Wilkins Peak Member, Green River Formation (Eocene), Wyoming.*

Sheldon Howard Stein, of Detroit, Mich., B. A. Wayne State University, 1972. Political Economy.

*Social Security, Interest Rates and Life Cycle Consumption.*

Larry Marion Stephens, of Columbia, S. C., B. S. E. University of South Carolina, 1968; M. S. E. The Johns Hopkins University, 1974. Electrical Engineering.

*Experimental Performance of Point Process Estimators of Optical Pulse Delay.*

Roger Reece Stough, of Findlay, Ohio, B. S. Ohio State University, 1964. Geography.

The Cognitive Behavioral Approach in Geography: *A Theoretical and Methodological Reformulation with a Test in the Context of Intra-Urban Migration.*

Christopher Putnam Stowell, of Salem, Conn., B. A. Brown University, 1971. Biology.

*The 2-Imino-2-methoxyethyl 1-Thioglycosides: New Reagents for Attaching Sugars to Proteins.*

Leon Strauss, of Owings Mills, Md., B. A. The Johns Hopkins University, 1972; M. A., 1974. Mathematics.

*On the Evaluation of Certain Integrals Through Desingularization.*

Cynthia Waugh Sulfridge, of Hiwassee Dam, N. C., B. A. Carson-Newman College, 1962; M. A. University of Tennessee, 1965; M. A. The Johns Hopkins University, 1975. English.

*Intimate Narrative: Reader-Relationship in Three Renaissance Precursors of Tristram Shandy.*

Eric John Sundquist, of McPherson, Kans., B. A. University of Kansas, 1974; M. A. The Johns Hopkins University, 1976. English.

*Home as Found: Authority & Genealogy in Cooper, Thoreau, Hawthorne and Melville.*

Yitzhak Tal, of Jerusalem, Israel, B. A. Hebrew University of Jerusalem, 1970; M. A. The Johns Hopkins University, 1976. Political Economy.

*Public Goods and Cooperative Solutions in Large Economies.*

Stavros Christos Tavoularis, of Athens, Greece, License (B. S.) National Metsovian Polytechnic, Greece, 1973; M. S. Virginia Polytechnic Institute and State University, 1975. Mechanics and Materials Science.

*Experiments in Turbulent Transport and Mixing.*

Beverly Ann Willis Teicher, of Hamburg, N. Y., B. S. Rensselaer Polytechnic Institute, 1973; M. A. The Johns Hopkins University, 1975. Chemistry.

*Chemical and Biochemical Studies Related to the Enzymatic Cleavage of the Cholesterol Side Chain to Pregnenolone.*

Joan Hulse Thompson, of McLean, Va., B. A. Gettysburg College, 1971; M. A. The Johns Hopkins University, 1972. Political Science.

*Career Patterns and Role Perceptions of United States Congresswomen since 1966.*

Craig Van Doren Thornton, of San Jose, Calif., B. A. University of Michigan, 1973; M. A. The Johns Hopkins University, 1975. Political Economy.

*Zoning, Apartments and Land Use Interactions.*

JoAnn Stephanie Turisco, of New London, Conn., B. A. The Johns Hopkins University, 1974; M. A., 1975. Mathematics.

*Quadratic Forms and Quadratic Mappings of Spheres.*

Diane Faye Urey, of Portland, Oreg., B. A. University of Oregon, 1974; M. A. The Johns Hopkins University, 1975. Romance Languages.

*The Language of irony in the novelas contemporáneas of Benito Pérez Galdós.*

Alexander Atkinson Waldrop III, of Roanoke, Va., B. S. University of Virginia, 1970. Biophysics.

*Chemical Studies of Bis (Pyridine) Osmate (VI) Esters and the Mercury Enhancement of Osmium Labelling of Polynucleotides.*

John Allan Walker, of Milwaukee, Wis., B. S. University of Wisconsin-Milwaukee, 1974; M. A. The Johns Hopkins University, 1977. Psychology.

*A Behavioral and Neurological Analysis of Rat Spatial Memory.*

William Beatty Warner, of Montpelier, Vt., M. A. The Johns Hopkins University, 1974. English.

Clarissa's Undoing: *The Struggles of Interpretation in and about Richardson's Clarissa.*

Ann Lenore Weber, of Simpsonville, Md., B. A. Catholic University of America, 1974; M. A. The Johns Hopkins University, 1976. Psychology.

*Personal Time: A Multidimensional Scaling Analysis of the Constructs of Experienced Time.*

Nancy Lynn Weigel, of Baltimore, Md., B. A. Cornell University, 1968; M. A. The Johns Hopkins University, 1972. Biology.

*The Structure of Salmonella Typhimurium HPr.*

Stephen Louis Weigert, of New York, N. Y., B. A. New York University, 1970. International Studies.

*Alliances and Regional Integration: The Case of Southern Africa, 1964-1974.*

Heinz Weiser, of Vienna, Austria, Equivalency of U. S. Baccalaureate Degree, Technische Hochschule, Austria, 1966; M. A. The Johns Hopkins University, 1971. Physics.

*Far Ultraviolet Spectrum of Saturn.*

Mary Louise Wood, of Finksburg, Md., B. A. Hood College, 1967; M. A. Syracuse University, 1971. History of Art.

*Early Twelfth-Century Sculpture in Pavia.*

Edward Michael Wysocki, Jr., of Baltimore, Md., B. E. S. The Johns Hopkins University, 1972. Electrical Engineering.

*Identification and Approximation of Non-linear Systems Based on Frequency Response Data.*

Commencement 1978

R

THE JOHNS HOPKINS UNIVERSITY • BALTIMORE, MARYLAND 21218

R.A. Zdanis RAZ
R. Hearn ✓ RH
S. Margolis
D. Price ✓ DEP

OFFICE OF THE REGISTRAR

July 20, 1978

For those who use the Commencement Program as an official record of the awarding of degrees, please note the following changes to the 1978 Commencement Program:

RECEIVED
JUL 24 1978
PROVOST'S OFFICE

1. Bachelor of Arts Degrees (Arts and Sciences)

Add: David Kerr Heasley, of Baltimore, Md.

Delete: James Aloysius Cahill III
Jervernia Yvette Chaney
Donna Lynne Jackson
Mathew Jacob
Kenneth Ray Melton
Roman Podolak
Karl Ernst Ranberg
Robert David Soloff
Kathleen Elizabeth Troy
James Alden Vette
David Allen Weisberg

2. Bachelor of Engineering Science Degrees (Engineering)

Delete: Eric Lee Douglass

3. Bachelor of Science Degrees (The School of Health Services)

Add: Barbara Ann Kowulich, of Rochester, N.Y., B.S. University of Rochester, 1975. Health Associate.

4. Bachelor of Music Degrees (The Peabody Conservatory of Music)

Add: Steven James Debevec, of Maryland. Guitar.
William Laramie, of Connecticut. Music Education.

5. Bachelor of Science Degrees (The Evening College)

Delete: Michael Edward Daneker
Karen Ann Laudenslayer

6. Bachelor of Science in Engineering Degrees (The Evening College)

Delete: Noorul Hasan

7. Master of Science Degrees (The Evening College)

Add: David Crawford Brock, of Baltimore, Md., B.A. Emory University, 1973. Education.
Carol Lee Conway, of Baltimore, Md., B.S. Towson State College, 1971. Education.
Esther Bugatch Rosenstock, of Owings Mills, Md., B.A. University of Maryland, 1961. Education.
Iris Hicks Stevens, of Columbia, Md., B.S. Morgan State College, 1972. Education.

Delete: William Thomas Angel
Alpha Estes Brown
James Ronald Campbell
Maryellen Cunnion
Desmond Lewin Daugherty
Jane Denise Bruce Davis
Janet Carol Powell Edwards
Darlene Ann Gayhardt
Ellen Gayle Gerber
Anisceta De Jesus Jackson Gewirtz
Barbara Susan Sadick Hanes
William Jan Hardenburg (Elec.Engr.)
John Frederic Hartranft
Stephen Henry Klomparens
Lillie Nelson Myers
Eskandar Alex Noorani
Marilyn Foote Price
Christopher Joseph Reed
Albert Kong Shing
John Henry Sinclair
Jane Elizabeth Stime
Robert Johnson Thien
Sarah Carey Jennings Winters

8. Master of Education Degrees (The Evening College)

Delete: Cynthia Adler Leibovici

9. Master of Liberal Arts Degrees (The Evening College)

Delete: Gail Stank Amoss
Renata Cordray Etherton
Claudia Sayre Zadroga

10. Master of Administrative Science Degrees (The Evening College)

Delete: Karen Ann Bernhardt

11. Certificate of Advanced Study Degrees (The Evening College)

Delete: Gertrude Johnson Brooks
Thomas Joseph Karwoski
Cortiaa Fay Thacker

12. Master of Public Health Degrees (The School of Hygiene and Public Health)

Add: Abu Obaida Magzoub Alawi, of Omdurman, Khartoum Province, Sudan; M.B.B.Ch. Alexandria University, 1967; D.P.H. Leeds University, 1974. Health Services Administration.

13. Master of International Public Policy Degrees (The School of Advanced International Studi

Delete: Joseph William Chope
Granville Marcus Cole

14. Master of Arts in International Affairs Degrees (The School of Advanced International Studies)

Delete: Michael, Ivar, Georges, Christen, Severin

15. Master of Arts Degrees (The School of Advanced International Studies)

Add: Laura Clyburn, of Conroe, Texas, B.A. University of Texas, 1968; M.A.T. Vanderbilt University, 1970.
David Richard McClintock, of Doylestown, Pa., B.A. Indiana University of Pennsylvania, 1974.

Delete:
Jocelyne May Albert
Jeannie Kristine Andersen
Stewart J. Ballard
Jon Scott Becker
Michael Gary Deal
Gregory Lee Doublestein
Darrell Kevin Ellison
Jean Francois N'Dinga Gaba
Claire Smith Gross
Elizabeth Ann Gross
Patricia Ann Haas
Philippe Paul Kahn
Tsukasa Kimoto
Walter Francis Kitchenman
Craig William Kolkman
Laura Jean Lindskog
Gerardo Llorente Escudero
Raphael Thomas Marrone
James D. Nickolas
Mark Harold Nordenson
Dominique Notari
Richard Jay Pollan
Phuong Dung Quach
Bahram Salimi
George John Schott
Christopher Joseph Sigur
Ann Lynn Sokoloff
Roberto Velazquez-Huber
Eleftherios Harry Vidas
Jordan Keith Young

16. Master of Music Degrees (The Peabcdy Conservatory of Music)

Delete: Gilbert Brown Benson
Barbara McKenzie-Ware

17. Master of Arts Degrees (Arts and Sciences)

Delete:
Bipin Aurora
Amy Beth Kaplan
Charlotte Ann Kinskey
Katharine Eisaman Maus
Nancy Noechel
James Michael Treadway

18. Phi Beta Kappa (Baccalaureate Candidates in the Faculty of Arts and Sciences and Engineering)

Add: E. Charles Rowan, Jr. (Elected in 1977-78. Graduated in 1977)

19. General Honors (Baccalaureate Candidates in the Faculty of Arts and Sciences and Engineering)

Delete: Kathleen Elizabeth Troy

20. Departmental Honors (Baccalaureate Candidates in the Faculty of Arts and Sciences and Engineering)

Add: Bernard Philip Horn

7. Master of Science Degrees (The Evening College)

Add: David Crawford Brock, of Baltimore, Md., B.A. Emory University, 1973. Education.
Carol Lee Conway, of Baltimore, Md., B.S. Towson State College, 1971. Education.
Esther Bugatch Rosenstock, of Owings Mills, Md., B.A. University of Maryland, 1961. Education.
Iris Hicks Stevens, of Columbia, Md., B.S. Morgan State College, 1972. Education.

Delete: William Thomas Angel
Alpha Estes Brown
James Ronald Campbell
Maryellen Cunnion
Desmond Lewin Daugherty
Jane Denise Bruce Davis
Janet Carol Powell Edwards
Darlene Ann Gayhardt
Ellen Gayle Gerber
Anisceta De Jesus Jackson Gewirtz
Barbara Susan Sadick Hanes
William Jan Hardenburg (Elec.Engr.)
John Frederic Hartranft
Stephen Henry Klomparens
Lillie Nelson Myers
Eskandar Alex Noorani
Marilyn Foote Price
Christopher Joseph Reed
Albert Kong Shing
John Henry Sinclair
Jane Elizabeth Stime
Robert Johnson Thien
Sarah Carey Jennings Winters

8. Master of Education Degrees (The Evening College)

Delete: Cynthia Adler Leibovici

9. Master of Liberal Arts Degrees (The Evening College)

Delete: Gail Stank Amoss
Renata Cordray Etherton
Claudia Sayre Zadroga

10. Master of Administrative Science Degrees (The Evening College)

Delete: Karen Ann Bernhardt

11. Certificate of Advanced Study Degrees (The Evening College)

Delete: Gertrude Johnson Brooks
Thomas Joseph Karwoski
Cortiaa Fay Thacker

12. Master of Public Health Degrees (The School of Hygiene and Public Health)

Add: Abu Obaida Magzoub Alawi, of Omdurman, Khartoum Province, Sudan; M.B.B.Ch. Alexandria University, 1967; D.P.H. Leeds University, 1974. Health Services Administration.

13. Master of International Public Policy Degrees (The School of Advanced International Studie

Delete: Joseph William Chope
Granville Marcus Cole

14. Master of Arts in International Affairs Degrees (The School of Advanced International Studies)

Delete: Michael, Ivar, Georges, Christen, Severin

15. Master of Arts Degrees (The School of Advanced International Studies)

Add: Laura Clyburn, of Conroe, Texas, B.A. University of Texas, 1968; M.A.T. Vanderbilt University, 1970.
David Richard McClintock, of Doylestown, Pa., B.A. Indiana University of Pennsylvania, 1974.

Delete:
Jocelyne May Albert
Jeannie Kristine Andersen
Stewart J. Ballard
Jon Scott Becker
Michael Gary Deal
Gregory Lee Doublestein
Darrell Kevin Ellison
Jean Francois N'Dinga Gaba
Claire Smith Gross
Elizabeth Ann Gross
Patricia Ann Haas
Philippe Paul Kahn
Tsukasa Kimoto
Walter Francis Kitchenman
Craig William Kolkman
Laura Jean Lindskog
Gerardo Llorente Escudero
Raphael Thomas Marrone
James D. Nickolas
Mark Harold Nordenson
Dominique Notari
Richard Jay Pollan
Phuong Dung Quach
Bahram Salimi
George John Schott
Christopher Joseph Sigur
Ann Lynn Sokoloff
Roberto Velazquez-Huber
Eleftherios Harry Vidas
Jordan Keith Young

16. Master of Music Degrees (The Peabody Conservatory of Music)

Delete: Gilbert Brown Benson
Barbara McKenzie-Ware

17. Master of Arts Degrees (Arts and Sciences)

Delete:
Bipin Aurora
Amy Beth Kaplan
Charlotte Ann Kinskey
Katharine Eisaman Maus
Nancy Noechel
James Michael Treadway

18. Phi Beta Kappa (Baccalaureate Candidates in the Faculty of Arts and Sciences and Engineering)

Add: E. Charles Rowan, Jr. (Elected in 1977-78. Graduated in 1977)

19. General Honors (Baccalaureate Candidates in the Faculty of Arts and Sciences and Engineering)

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Add: Bernard Philip Horn